

# **EasyBbk Documentation:**

## **data\_center API**

Author: Chen YiBai

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# Introduction

This is a documentation auto generated by doxygen V1.8.8 about the package “data\_center” in the software “Easy BBK”. The documentation introduces all the source files in the package “data\_center” and extract the annotations in the source code into it, which may provide some help for the usage and further development of “data\_center”.

"Easy BBK" is a trial to provide a standardized, visualized and user friendly access to bio-brick system by simplify and interassociate the searching, comparing, designing and uploading of bio-bricks. These four main functions constitute the "Easy BBK" client-side which is realized by pure java and supported by a remote server through the internet.

“data\_center” is the connector between the GUI and the remote server, it connect to the online database and program in server, as well as downloading, storing and providing the data to the GUI part of “Easy BBK”. Having access to the source code or .jar file of the “data\_center”, one can use most of the main functions of “Easy BBK” about searching, comparing and uploading through the API provided.

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# Class Index

## Class List

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# Namespace Documentation

## Package data\_center

### Classes

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- class [BbkType](#)
- class [BbkUpload](#)
- class [BlastingSearcher](#)
- class [CompareCenter](#)
- class [DatabaseConnector](#)
- class [DataCenter](#)
- class [DBConsts](#)
- class **DBDataFiller**
- class **DetailPageCenter**
- class [OfficialUploadPoster](#)
- class [OperationHistory](#)
- class [SearchCenter](#)
- class [SearchHistory](#)
- class [SketchCenter](#)
- class [SketchComponent](#)
- class [SketchOperation](#)
- class [SketchProject](#)
- class [TimeTagGenerator](#)
- class [UploadCenter](#)



# Class Documentation

## data\_center.BbkType.Sketch.BackBone Class Reference

### Static Public Attributes

static final int [LINEAR](#) = 1  
static final int [CIRCULAR](#) = 2

---

### Detailed Description

Definition at line 70 of file BbkType.java.

---

### Member Data Documentation

**final int data\_center.BbkType.Sketch.BackBone.CIRCULAR = 2 [static]**

Definition at line 73 of file BbkType.java.

**final int data\_center.BbkType.Sketch.BackBone.LINEAR = 1 [static]**

Definition at line 72 of file BbkType.java.

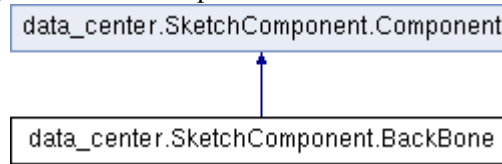
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**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹¸ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkType.java

## data\_center.SketchComponent.BackBone Class Reference

Inheritance diagram for data\_center.SketchComponent.BackBone:



### Public Member Functions

[BackBone](#) (int theID, Rectangle [bounds](#))  
[BackBone](#) (int theID, Rectangle [bounds](#), ArrayList< Integer > childIDList)  
[BackBone toSubclass](#) ()  
Rectangle [getBounds](#) ()  
void [setBounds](#) (Rectangle [bounds](#))  
ArrayList< Integer > [getChildren](#) ()  
void [setChildren](#) (ArrayList< Integer > children)  
void [display](#) ()  
[Label toLabel](#) ()  
[BioBrick toBioBrick](#) ()  
[Protein toProtein](#) ()  
[BackBone toBackBone](#) ()  
[Relation toRelation](#) ()  
[BioVector toBioVector](#) ()  
Integer [getSecondaryType](#) ()  
void [setSecondaryType](#) (Integer type)  
String [getString](#) ()  
void [setString](#) (String str)  
Font [getFont](#) ()  
void [setFont](#) (Font font)  
Color [getColor](#) ()  
void [setColor](#) (Color color)  
Double [getThickness](#) ()  
void [setThickness](#) (double thickness)  
ArrayList< Point > [getCurve](#) ()  
void [setCurve](#) (ArrayList< Point > curve)

### Public Attributes

Rectangle [bounds](#)  
ArrayList< Integer > [bbkChildren](#)  
int [ID](#)  
String [primaryType](#)

---

### Detailed Description

Definition at line 307 of file SketchComponent.java.

---

## Constructor & Destructor Documentation

**data\_center.SketchComponent.BackBone.BackBone (int *theID*, Rectangle *bounds*)**

Definition at line 312 of file SketchComponent.java.

**data\_center.SketchComponent.BackBone.BackBone (int *theID*, Rectangle *bounds*, ArrayList< Integer > *childIDList*)**

Definition at line 319 of file SketchComponent.java.

---

## Member Function Documentation

**void data\_center.SketchComponent.BackBone.display ()**

Definition at line 346 of file SketchComponent.java.

**Rectangle data\_center.SketchComponent.BackBone.getBounds ()**

Definition at line 331 of file SketchComponent.java.

**ArrayList<Integer> data\_center.SketchComponent.BackBone.getChildren ()**

Definition at line 339 of file SketchComponent.java.

**Color data\_center.SketchComponent.Component.getColor () [inherited]**

Definition at line 79 of file SketchComponent.java.

**ArrayList<Point> data\_center.SketchComponent.Component.getCurve () [inherited]**

Definition at line 90 of file SketchComponent.java.

**Font data\_center.SketchComponent.Component.getFont () [inherited]**

Definition at line 74 of file SketchComponent.java.

**Integer data\_center.SketchComponent.Component.getSecondaryType () [inherited]**

Definition at line 52 of file SketchComponent.java.

**String data\_center.SketchComponent.Component.getString () [inherited]**

text for [Label](#), and bbkName for [BioBrick](#)

Definition at line 59 of file SketchComponent.java.

**Double data\_center.SketchComponent.Component.getThickness () [inherited]**

the thickness in the [Relation](#)

Definition at line 85 of file SketchComponent.java.

**void data\_center.SketchComponent.BackBone.setBounds (Rectangle *bounds*)**

Definition at line 335 of file SketchComponent.java.

**void data\_center.SketchComponent.BackBone.setChildren (ArrayList< Integer > *children*)**

Definition at line 343 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setColor (Color *color*) [inherited]**

Definition at line 82 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setCurve (ArrayList< Point > *curve*) [inherited]**

Definition at line 93 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setFont (Font *font*) [inherited]**

Definition at line 77 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setSecondaryType (Integer *type*) [inherited]**

Secondary type is defined in [BbkType.Sketch](#)

Definition at line 56 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setString (String *str*) [inherited]**

text for [Label](#), and bbkName for [BioBrick](#)

Definition at line 63 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setThickness (double *thickness*) [inherited]**

Definition at line 88 of file SketchComponent.java.

**[BackBone](#) data\_center.SketchComponent.Component.toBackBone () [inherited]**

Definition at line 39 of file SketchComponent.java.

**[BioBrick](#) data\_center.SketchComponent.Component.toBioBrick () [inherited]**

Definition at line 33 of file SketchComponent.java.

**[BioVector](#) data\_center.SketchComponent.Component.toBioVictor () [inherited]**

Definition at line 45 of file SketchComponent.java.

**[Label](#) data\_center.SketchComponent.Component.toLabel () [inherited]**

Definition at line 30 of file SketchComponent.java.

**[Protein](#) data\_center.SketchComponent.Component.toProtein () [inherited]**

Definition at line 36 of file SketchComponent.java.

**[Relation](#) data\_center.SketchComponent.Component.toRelation () [inherited]**

Definition at line 42 of file SketchComponent.java.

**[BackBone](#) data\_center.SketchComponent.BackBone.toSubclass ()**

Definition at line 327 of file SketchComponent.java.

---

## Member Data Documentation

**ArrayList<Integer> data\_center.SketchComponent.BackBone.bbkChildren**

Definition at line 310 of file SketchComponent.java.

**Rectangle data\_center.SketchComponent.BackBone.bounds**

Definition at line 309 of file SketchComponent.java.

**int data\_center.SketchComponent.Component.ID [inherited]**

Definition at line 16 of file SketchComponent.java.

**String data\_center.SketchComponent.Component.primaryType [inherited]**

Definition at line 17 of file SketchComponent.java.

---

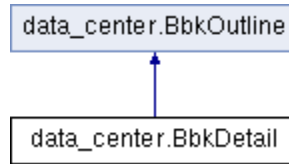
**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/SketchComponent.java



## data\_center.BbkDetail Class Reference

Inheritance diagram for data\_center.BbkDetail:



### Classes

class [Category](#)  
class [DeepSubpart](#)  
class [Feature](#)  
class [Parameter](#)  
class [SpecifiedSubpart](#)  
class [SpecifiedSubscar](#)  
class [Twin](#)

### Public Member Functions

[BbkDetail](#) ()  
void [display](#) ()  
double [getScore](#) ()  
double [getScore](#) (double status\_weight, double quality\_weight, double feedbacks\_weight, double publication\_weight)  
void [displayFilteringConditions](#) ()  
void [displaySortingConditions](#) ()  
void [displayRating](#) ()

### Public Attributes

ArrayList< [Category](#) > [categories](#) = new ArrayList<[Category](#)>()  
ArrayList< [DeepSubpart](#) > [deepSubparts](#) = new ArrayList<[DeepSubpart](#)>()  
ArrayList< [Feature](#) > [features](#) = new ArrayList<[Feature](#)>()  
ArrayList< [Parameter](#) > [parameters](#) = new ArrayList<[Parameter](#)>()  
ArrayList< [SpecifiedSubpart](#) > [specifiedSubparts](#) = new ArrayList<[SpecifiedSubpart](#)>()  
ArrayList< [SpecifiedSubscar](#) > [specifiedSubscars](#) = new ArrayList<[SpecifiedSubscar](#)>()  
ArrayList< [Twin](#) > [twins](#) = new ArrayList<[Twin](#)>()  
String [name](#)  
String [type](#)  
String [author](#)  
String [enterDate](#)  
String [shortDesc](#)  
String [url](#)  
[Rating](#) [rating](#) = null  
[Blasting](#) [blasting](#) = null  
String [ID](#)  
String [shortName](#)  
String [releaseStatus](#)  
String [sampleStatus](#)  
String [results](#)  
String [nickname](#)  
String [part\\_rating](#)  
String [sequence](#)  
String [samples](#)  
String [references](#)

String [groups](#)  
String [DNA\\_status](#)  
String [groupFavorite](#)

---

### Detailed Description

The class used to store the data in the detail page. All of the data are fetched from EasyBbk database and stored as Strings.

Definition at line 9 of file BbkDetail.java.

---

### Constructor & Destructor Documentation

#### **data\_center.BbkDetail.BbkDetail ()**

Definition at line 20 of file BbkDetail.java.

---

### Member Function Documentation

#### **void data\_center.BbkDetail.display ()**

Print main attributes in cmd for testing.

Definition at line 25 of file BbkDetail.java.

#### **void data\_center.BbkOutline.displayFilteringConditions () [inherited]**

Definition at line 82 of file BbkOutline.java.

#### **void data\_center.BbkOutline.displayRating () [inherited]**

Definition at line 108 of file BbkOutline.java.

**void data\_center.BbkOutline.displaySortingConditions () [inherited]**

Definition at line 95 of file BbkOutline.java.

**double data\_center.BbkOutline.getScore () [inherited]**

Score at default weight.

Definition at line 45 of file BbkOutline.java.

**double data\_center.BbkOutline.getScore (double *status\_weight*, double *quality\_weight*, double *feedbacks\_weight*, double *publication\_weight*) [inherited]**

Score at custom weight.

Definition at line 54 of file BbkOutline.java.

---

## Member Data Documentation

**String data\_center.BbkOutline.author [inherited]**

Definition at line 14 of file BbkOutline.java.

**[Blasting](#) data\_center.BbkOutline.blasting = null [inherited]**

Definition at line 20 of file BbkOutline.java.

**ArrayList<[Category](#)> data\_center.BbkDetail.categories = new ArrayList<[Category](#)>()**

Definition at line 11 of file BbkDetail.java.

```
ArrayList<DeepSubpart> data_center.BbkDetail.deepSubparts = new  
ArrayList<DeepSubpart>()
```

Definition at line 12 of file BbkDetail.java.

```
String data_center.BbkOutline.DNA_status [inherited]
```

Definition at line 33 of file BbkOutline.java.

```
String data_center.BbkOutline.enterDate [inherited]
```

Definition at line 15 of file BbkOutline.java.

```
ArrayList<Feature> data_center.BbkDetail.features = new ArrayList<Feature>()
```

Definition at line 13 of file BbkDetail.java.

```
String data_center.BbkOutline.groupFavorite [inherited]
```

Definition at line 34 of file BbkOutline.java.

```
String data_center.BbkOutline.groups [inherited]
```

Definition at line 32 of file BbkOutline.java.

**String data\_center.BbkOutline.ID [inherited]**

Definition at line 22 of file BbkOutline.java.

**String data\_center.BbkOutline.name [inherited]**

Definition at line 12 of file BbkOutline.java.

**String data\_center.BbkOutline.nickname [inherited]**

Definition at line 27 of file BbkOutline.java.

**ArrayList<[Parameter](#)> data\_center.BbkDetail.parameters = new ArrayList<[Parameter](#)>()**

Definition at line 14 of file BbkDetail.java.

**String data\_center.BbkOutline.part\_rating [inherited]**

Definition at line 28 of file BbkOutline.java.

**[Rating](#) data\_center.BbkOutline.rating = null [inherited]**

Definition at line 19 of file BbkOutline.java.

**String data\_center.BbkOutline.references [inherited]**

Definition at line 31 of file BbkOutline.java.

**String data\_center.BbkOutline.releaseStatus [inherited]**

Definition at line 24 of file BbkOutline.java.

**String data\_center.BbkOutline.results [inherited]**

Definition at line 26 of file BbkOutline.java.

**String data\_center.BbkOutline.samples [inherited]**

Definition at line 30 of file BbkOutline.java.

**String data\_center.BbkOutline.sampleStatus [inherited]**

Definition at line 25 of file BbkOutline.java.

**String data\_center.BbkOutline.sequence [inherited]**

Definition at line 29 of file BbkOutline.java.

**String data\_center.BbkOutline.shortDesc [inherited]**

Definition at line 16 of file BbkOutline.java.

**String data\_center.BbkOutline.shortName [inherited]**

Definition at line 23 of file BbkOutline.java.

**ArrayList<[SpecifiedSubpart](#)> data\_center.BbkDetail.specifiedSubparts = new  
ArrayList<[SpecifiedSubpart](#)>()**

Definition at line 15 of file BbkDetail.java.

**ArrayList<[SpecifiedSubscar](#)> data\_center.BbkDetail.specifiedSubscars = new  
ArrayList<[SpecifiedSubscar](#)>()**

Definition at line 16 of file BbkDetail.java.

**ArrayList<[Twin](#)> data\_center.BbkDetail.twins = new ArrayList<[Twin](#)>()**

Definition at line 17 of file BbkDetail.java.

**String data\_center.BbkOutline.type [inherited]**

Definition at line 13 of file BbkOutline.java.

**String data\_center.BbkOutline.url [inherited]**

Definition at line 17 of file BbkOutline.java.

---

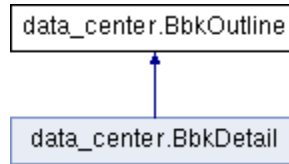
**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkDetail.java



## data\_center.BbkOutline Class Reference

Inheritance diagram for data\_center.BbkOutline:



### Classes

class [Blasting](#)

class [Rating](#)

### Public Member Functions

[BbkOutline](#) ()

[BbkOutline](#) (ResultSet resultSet) throws SQLException

double [getScore](#) ()

double [getScore](#) (double status\_weight, double quality\_weight, double feedbacks\_weight, double publication\_weight)

void [display](#) ()

void [displayFilteringConditions](#) ()

void [displaySortingConditions](#) ()

void [displayRating](#) ()

### Public Attributes

String [name](#)

String [type](#)

String [author](#)

String [enterDate](#)

String [shortDesc](#)

String [url](#)

[Rating](#) [rating](#) = null

[Blasting](#) [blasting](#) = null

String [ID](#)

String [shortName](#)

String [releaseStatus](#)

String [sampleStatus](#)

String [results](#)

String [nickname](#)

String [part\\_rating](#)

String [sequence](#)

String [samples](#)

String [references](#)

String [groups](#)

String [DNA\\_status](#)

String [groupFavorite](#)

---

### Detailed Description

The class used to store the data to be shown in search result. All of the data are fetched from EasyBbk database and stored as Strings. Also contains the [getScore\(\)](#) method to get the score evaluated by SJTU-software team.

Definition at line 9 of file BbkOutline.java.

---

## Constructor & Destructor Documentation

### **data\_center.BbkOutline.BbkOutline ()**

Definition at line 36 of file BbkOutline.java.

### **data\_center.BbkOutline.BbkOutline (ResultSet *resultSet*) throws SQLException**

Definition at line 39 of file BbkOutline.java.

---

## Member Function Documentation

### **void data\_center.BbkOutline.display ()**

Print main attributes in cmd for testing.

Definition at line 70 of file BbkOutline.java.

### **void data\_center.BbkOutline.displayFilteringConditions ()**

Definition at line 82 of file BbkOutline.java.

### **void data\_center.BbkOutline.displayRating ()**

Definition at line 108 of file BbkOutline.java.

**void data\_center.BbkOutline.displaySortingConditions ()**

Definition at line 95 of file BbkOutline.java.

**double data\_center.BbkOutline.getScore ()**

Score at default weight.

Definition at line 45 of file BbkOutline.java.

**double data\_center.BbkOutline.getScore (double *status\_weight*, double *quality\_weight*, double *feedbacks\_weight*, double *publication\_weight*)**

Score at custom weight.

Definition at line 54 of file BbkOutline.java.

---

## Member Data Documentation

**String data\_center.BbkOutline.author**

Definition at line 14 of file BbkOutline.java.

**[Blasting](#) data\_center.BbkOutline.blasting = null**

Definition at line 20 of file BbkOutline.java.

**String data\_center.BbkOutline.DNA\_status**

Definition at line 33 of file BbkOutline.java.

**String data\_center.BbkOutline.enterDate**

Definition at line 15 of file BbkOutline.java.

**String data\_center.BbkOutline.groupFavorite**

Definition at line 34 of file BbkOutline.java.

**String data\_center.BbkOutline.groups**

Definition at line 32 of file BbkOutline.java.

**String data\_center.BbkOutline.ID**

Definition at line 22 of file BbkOutline.java.

**String data\_center.BbkOutline.name**

Definition at line 12 of file BbkOutline.java.

**String data\_center.BbkOutline.nickname**

Definition at line 27 of file BbkOutline.java.

**String data\_center.BbkOutline.part\_rating**

Definition at line 28 of file BbkOutline.java.

**[Rating](#) data\_center.BbkOutline.rating = null**

Definition at line 19 of file BbkOutline.java.

**String data\_center.BbkOutline.references**

Definition at line 31 of file BbkOutline.java.

**String data\_center.BbkOutline.releaseStatus**

Definition at line 24 of file BbkOutline.java.

**String data\_center.BbkOutline.results**

Definition at line 26 of file BbkOutline.java.

**String data\_center.BbkOutline.samples**

Definition at line 30 of file BbkOutline.java.

### **String data\_center.BbkOutline.sampleStatus**

Definition at line 25 of file BbkOutline.java.

### **String data\_center.BbkOutline.sequence**

Definition at line 29 of file BbkOutline.java.

### **String data\_center.BbkOutline.shortDesc**

Definition at line 16 of file BbkOutline.java.

### **String data\_center.BbkOutline.shortName**

Definition at line 23 of file BbkOutline.java.

### **String data\_center.BbkOutline.type**

Definition at line 13 of file BbkOutline.java.

### **String data\_center.BbkOutline.url**

Definition at line 17 of file BbkOutline.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å\$†/SJTU-Software\_2014/src/data\_center/BbkOutline.java



## data\_center.BbkProperties Class Reference

### Classes

class [Category](#)  
class [DeepSubpart](#)  
class [Feature](#)  
class [Parameter](#)  
class [SpecifiedSubpart](#)  
class [SpecifiedSubscar](#)  
class [Twin](#)

---

### Detailed Description

The properties in the other 7 tables exclude main, used to be extended in [BbkDetail](#) and [BbkUpload](#) to store the details.

Definition at line 8 of file BbkProperties.java.

---

The documentation for this class was generated from the following file:

D:/\_About å-ä¹/ç±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkProperties.java



## data\_center.BbkType Class Reference

### Classes

class [Sketch](#)

### Static Public Attributes

```
static final int PROMOTER = 1
static final int RBS = 2
static final int PROTEIN\_DOMAIN = 3
static final int PROTEIN\_CODING\_SEQUENCE = 4
static final int TRANSLATIONAL\_UNIT = 5
static final int TERMINATOR = 6
static final int DNA = 7
static final int PLASMID\_BACKBONE = 8
static final int PLASMID = 9
static final int PRIMER = 10
static final int COMPOSITE = 11
static final int PROTEIN\_GENERATOR = 12
static final int REPORTER = 13
static final int INVERTER = 14
static final int SIGNALLING = 15
static final int MEASUREMENT = 16
static final int OTHER = 0
static final String strOf PROMOTER = "Regulatory"
static final String strOf RBS = "RBS"
static final String strOf PROTEIN\_DOMAIN = "Tag"
static final String strOf PROTEIN\_CODING\_SEQUENCE = "Coding"
static final String strOf TRANSLATIONAL\_UNIT = "Translational_Unit"
static final String strOf TERMINATOR = "Terminator"
static final String strOf DNA = "DNA"
static final String strOf PLASMID\_BACKBONE = "Plasmid_Backbone"
static final String strOf PLASMID = "Plasmid"
static final String strOf PRIMER = "Primer"
static final String strOf COMPOSITE = "Composite"
static final String strOf PROTEIN\_GENERATOR = "Generator"
static final String strOf REPORTER = "Reporter"
static final String strOf INVERTER = "Inverter"
static final String strOf SIGNALLING = "Signalling"
static final String strOf MEASUREMENT = "Measurement"
```

---

### Detailed Description

The class to store the constants of the types of biobrick.

Definition at line 4 of file BbkType.java.

---

## Member Data Documentation

**final int data\_center.BbkType.COMPOSITE = 11 [static]**

Definition at line 16 of file BbkType.java.

**final int data\_center.BbkType.DNA = 7 [static]**

Definition at line 12 of file BbkType.java.

**final int data\_center.BbkType.INVERTER = 14 [static]**

Definition at line 19 of file BbkType.java.

**final int data\_center.BbkType.MEASUREMENT = 16 [static]**

Definition at line 21 of file BbkType.java.

**final int data\_center.BbkType.OTHER = 0 [static]**

Definition at line 22 of file BbkType.java.

**final int data\_center.BbkType.PLASMID = 9 [static]**

Definition at line 14 of file BbkType.java.

```
final int data_center.BbkType.PLASMID_BACKBONE = 8 [static]
```

Definition at line 13 of file BbkType.java.

```
final int data_center.BbkType.PRIMER = 10 [static]
```

Definition at line 15 of file BbkType.java.

```
final int data_center.BbkType.PROMOTER = 1 [static]
```

Definition at line 6 of file BbkType.java.

```
final int data_center.BbkType.PROTEIN_CODING_SEQUENCE = 4 [static]
```

Definition at line 9 of file BbkType.java.

```
final int data_center.BbkType.PROTEIN_DOMAIN = 3 [static]
```

Definition at line 8 of file BbkType.java.

```
final int data_center.BbkType.PROTEIN_GENERATOR = 12 [static]
```

Definition at line 17 of file BbkType.java.

```
final int data_center.BbkType.RBS = 2 [static]
```

Definition at line 7 of file BbkType.java.

```
final int data_center.BbkType.REPORTER = 13 [static]
```

Definition at line 18 of file BbkType.java.

```
final int data_center.BbkType.SIGNALLING = 15 [static]
```

Definition at line 20 of file BbkType.java.

```
final String data_center.BbkType.strOf_COMPOSITE = "Composite" [static]
```

Definition at line 34 of file BbkType.java.

```
final String data_center.BbkType.strOf_DNA = "DNA" [static]
```

Definition at line 30 of file BbkType.java.

```
final String data_center.BbkType.strOf_INVERTER = "Inverter" [static]
```

Definition at line 37 of file BbkType.java.

```
final String data_center.BbkType.strOf_MEASUREMENT = "Measurement" [static]
```

Definition at line 39 of file BbkType.java.

```
final String data_center.BbkType.strOf_PLASMID = "Plasmid" [static]
```

Definition at line 32 of file BbkType.java.

```
final String data_center.BbkType.strOf_PLASMID_BACKBONE =  
"Plasmid_Backbone" [static]
```

Definition at line 31 of file BbkType.java.

```
final String data_center.BbkType.strOf_PRIMER = "Primer" [static]
```

Definition at line 33 of file BbkType.java.

```
final String data_center.BbkType.strOf_PROMOTER = "Regulatory" [static]
```

Definition at line 24 of file BbkType.java.

```
final String data_center.BbkType.strOf_PROTEIN_CODING_SEQUENCE =  
"Coding" [static]
```

Definition at line 27 of file BbkType.java.

```
final String data_center.BbkType.strOf_PROTEIN_DOMAIN = "Tag" [static]
```

Definition at line 26 of file BbkType.java.

```
final String data_center.BbkType.strOf_PROTEIN_GENERATOR = "Generator" [static]
```

Definition at line 35 of file BbkType.java.

```
final String data_center.BbkType.strOf_RBS = "RBS" [static]
```

Definition at line 25 of file BbkType.java.

```
final String data_center.BbkType.strOf_REPORTER = "Reporter" [static]
```

Definition at line 36 of file BbkType.java.

```
final String data_center.BbkType.strOf_SIGNALLING = "Signalling" [static]
```

Definition at line 38 of file BbkType.java.

```
final String data_center.BbkType.strOf_TERMINATOR = "Terminator" [static]
```

Definition at line 29 of file BbkType.java.

```
final String data_center.BbkType.strOf_TRANSLATIONAL_UNIT =  
"Translational_Unit" [static]
```

Definition at line 28 of file BbkType.java.

```
final int data_center.BbkType.TERMINATOR = 6 [static]
```

Definition at line 11 of file BbkType.java.

```
final int data_center.BbkType.TRANSLATIONAL_UNIT = 5 [static]
```

Definition at line 10 of file BbkType.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkType.java

## data\_center.BbkUpload Class Reference

### Classes

class [Category](#)  
class [DeepSubpart](#)  
class [Feature](#)  
class [Parameter](#)  
class [SpecifiedSubpart](#)  
class [SpecifiedSubscar](#)  
class [Twin](#)

### Public Member Functions

[BbkUpload](#) ()  
String [getName](#) ()  
void [setName](#) (String name)  
String [getEnterDate](#) ()  
void [setEnterDate](#) ()  
String [getID](#) ()  
void [setID](#) (String ID)  
void [setID](#) ()  
String [getShortName](#) ()  
String [getSequence](#) ()  
void [setSequence](#) (boolean useDefaultScar, boolean findTwins)  
void [fillPrivateData](#) (ResultSet resultSet) throws SQLException  
void [display](#) ()

### Public Attributes

String [type](#)  
String [author](#)  
String [shortDesc](#)  
String [longDesc](#)  
String [source](#)  
String [notes](#)  
String [nickname](#)  
String [groupFavorite](#)  
String [delete\\_this\\_part](#)  
ArrayList< Object > [sequenceTokens](#) = new ArrayList<Object>()  
ArrayList< [Category](#) > [categories](#) = new ArrayList<[Category](#)>()  
ArrayList< [Feature](#) > [features](#) = new ArrayList<[Feature](#)>()  
ArrayList< [Parameter](#) > [parameters](#) = new ArrayList<[Parameter](#)>()

---

### Detailed Description

The data stored locally in the EasyBbk before upload. A filled [BbkUpload](#) can be used to upload a biobrick directly into the database established by SJTU-software.

Definition at line 9 of file BbkUpload.java.

---



## Constructor & Destructor Documentation

### **data\_center.BbkUpload.BbkUpload ()**

Definition at line 37 of file BbkUpload.java.

---

## Member Function Documentation

### **void data\_center.BbkUpload.display ()**

Definition at line 252 of file BbkUpload.java.

### **void data\_center.BbkUpload.fillPrivateData (ResultSet *resultSet*) throws SQLException**

Used when filling private from database into bbkUpload, others in DBDataFiller

#### **Exceptions:**

<i>SQLException</i>	
---------------------	--

Definition at line 126 of file BbkUpload.java.

### **String data\_center.BbkUpload.getEnterDate ()**

Definition at line 51 of file BbkUpload.java.

### **String data\_center.BbkUpload.getID ()**

Definition at line 60 of file BbkUpload.java.

**String data\_center.BbkUpload.getName ()**

Definition at line 39 of file BbkUpload.java.

**String data\_center.BbkUpload.getSequence ()**

Definition at line 76 of file BbkUpload.java.

**String data\_center.BbkUpload.getShortName ()**

setShortName in [setName\(\)](#)

Definition at line 73 of file BbkUpload.java.

**void data\_center.BbkUpload.setEnterDate ()**

Definition at line 54 of file BbkUpload.java.

**void data\_center.BbkUpload.setID (String *ID*)**

Definition at line 63 of file BbkUpload.java.

**void data\_center.BbkUpload.setID ()**

Definition at line 66 of file BbkUpload.java.

**void data\_center.BbkUpload.setName (String name)**

rawName is some thing without "BBa\_", like "B0012". Suffix "\_EasyBbk" will be automatically appended to distinguish them from the biobricks fetched from igem.org

Definition at line 45 of file BbkUpload.java.

**void data\_center.BbkUpload.setSequence (boolean useDefaultScar, boolean findTwins)**

Also set the subscar, subpart, deepsubpart and twins at the same time Please call uploadCenter.isSequanceValid() first. useDefaultScar means use RFC[10] to fill all unspecified scars between bio-bricks

Definition at line 83 of file BbkUpload.java.

---

**Member Data Documentation****String data\_center.BbkUpload.author**

Definition at line 19 of file BbkUpload.java.

**ArrayList<[Category](#)> data\_center.BbkUpload.categories = new ArrayList<[Category](#)>()**

Definition at line 29 of file BbkUpload.java.

**String data\_center.BbkUpload.delete\_this\_part**

Definition at line 26 of file BbkUpload.java.

**ArrayList<[Feature](#)> data\_center.BbkUpload.features = new ArrayList<[Feature](#)>()**

Definition at line 30 of file BbkUpload.java.

**String data\_center.BbkUpload.groupFavorite**

Definition at line 25 of file BbkUpload.java.

**String data\_center.BbkUpload.longDesc**

Definition at line 21 of file BbkUpload.java.

**String data\_center.BbkUpload.nickname**

Definition at line 24 of file BbkUpload.java.

**String data\_center.BbkUpload.notes**

Definition at line 23 of file BbkUpload.java.

**ArrayList<[Parameter](#)> data\_center.BbkUpload.parameters = new ArrayList<[Parameter](#)>()**

Definition at line 31 of file BbkUpload.java.

**ArrayList<Object> data\_center.BbkUpload.sequenceTokens = new ArrayList<Object>()**

Definition at line 27 of file BbkUpload.java.

### **String data\_center.BbkUpload.shortDesc**

Definition at line 20 of file BbkUpload.java.

### **String data\_center.BbkUpload.source**

Definition at line 22 of file BbkUpload.java.

### **String data\_center.BbkUpload.type**

Definition at line 18 of file BbkUpload.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkUpload.java

## data\_center.BbkType.Sketch.BioBrick Class Reference

### Static Public Attributes

static final int [PROMOTER](#) = 1  
static final int [RBS](#) = 2  
static final int [PROTEIN\\_CODING\\_SEQUENCE](#) = 3  
static final int [TERMINATOR](#) = 4  
static final int [PRIMER](#) = 5  
static final int [REPORTER](#) = 6  
static final int [OTHER](#) = 0

---

### Detailed Description

Definition at line 52 of file BbkType.java.

---

### Member Data Documentation

**final int data\_center.BbkType.Sketch.BioBrick.OTHER = 0 [static]**

Definition at line 60 of file BbkType.java.

**final int data\_center.BbkType.Sketch.BioBrick.PRIMER = 5 [static]**

Definition at line 58 of file BbkType.java.

**final int data\_center.BbkType.Sketch.BioBrick.PROMOTER = 1 [static]**

Definition at line 54 of file BbkType.java.

**final int data\_center.BbkType.Sketch.BioBrick.PROTEIN\_CODING\_SEQUENCE = 3 [static]**

Definition at line 56 of file BbkType.java.

```
final int data_center.BbkType.Sketch.BioBrick.RBS = 2 [static]
```

Definition at line 55 of file BbkType.java.

```
final int data_center.BbkType.Sketch.BioBrick.REPORTER = 6 [static]
```

Definition at line 59 of file BbkType.java.

```
final int data_center.BbkType.Sketch.BioBrick.TERMINATOR = 4 [static]
```

Definition at line 57 of file BbkType.java.

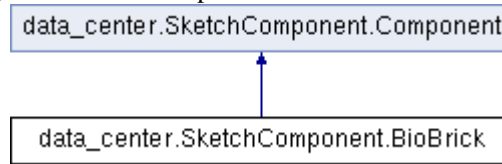
---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkType.java

## data\_center.SketchComponent.BioBrick Class Reference

Inheritance diagram for data\_center.SketchComponent.BioBrick:



### Public Member Functions

[BioBrick](#) (int theID, int [secondaryType](#), Rectangle [bounds](#), Color [color](#))  
[BioBrick](#) (int theID, String bbkName, int [secondaryType](#), Rectangle [bounds](#), Color [color](#))  
[BioBrick toSubclass](#) ()  
Integer [getSecondaryType](#) ()  
void [setSecondaryType](#) (Integer type)  
String [getString](#) ()  
void [setString](#) (String bbkName)  
Rectangle [getBounds](#) ()  
void [setBounds](#) (Rectangle [bounds](#))  
Color [getColor](#) ()  
void [setColor](#) (Color [color](#))  
void [display](#) ()  
[Label toLabel](#) ()  
[BioBrick toBioBrick](#) ()  
[Protein toProtein](#) ()  
[BackBone toBackBone](#) ()  
[Relation toRelation](#) ()  
[BioVector toBioVictor](#) ()  
Font [getFont](#) ()  
void [setFont](#) (Font font)  
Double [getThickness](#) ()  
void [setThickness](#) (double thickness)  
ArrayList< Point > [getCurve](#) ()  
void [setCurve](#) (ArrayList< Point > curve)  
ArrayList< Integer > [getChildren](#) ()  
void [setChildren](#) (ArrayList< Integer > children)

### Public Attributes

[BbkOutline bbkOutline](#) = null  
int [secondaryType](#)  
Rectangle [bounds](#)  
Color [color](#)  
int [ID](#)  
String [primaryType](#)

---

### Detailed Description

Definition at line 172 of file SketchComponent.java.

---



## Constructor & Destructor Documentation

**data\_center.SketchComponent.BioBrick.BioBrick (int *theID*, int *secondaryType*, Rectangle *bounds*, Color *color*)**

Definition at line 180 of file SketchComponent.java.

**data\_center.SketchComponent.BioBrick.BioBrick (int *theID*, String *bbkName*, int *secondaryType*, Rectangle *bounds*, Color *color*)**

bbkOutline should be set by setString(bbkName)

Definition at line 191 of file SketchComponent.java.

---

## Member Function Documentation

**void data\_center.SketchComponent.BioBrick.display ()**

Definition at line 240 of file SketchComponent.java.

**Rectangle data\_center.SketchComponent.BioBrick.getBounds ()**

Definition at line 225 of file SketchComponent.java.

**ArrayList<Integer> data\_center.SketchComponent.Component.getChildren () [inherited]**

bbkChildren in backBone, the IDs

Definition at line 96 of file SketchComponent.java.

**Color data\_center.SketchComponent.BioBrick.getColor ()**

Definition at line 233 of file SketchComponent.java.

**ArrayList<Point> data\_center.SketchComponent.Component.getCurve () [inherited]**

Definition at line 90 of file SketchComponent.java.

**Font data\_center.SketchComponent.Component.getFont () [inherited]**

Definition at line 74 of file SketchComponent.java.

**Integer data\_center.SketchComponent.BioBrick.getSecondaryType ()**

Definition at line 207 of file SketchComponent.java.

**String data\_center.SketchComponent.BioBrick.getString ()**

Definition at line 215 of file SketchComponent.java.

**Double data\_center.SketchComponent.Component.getThickness () [inherited]**

the thickness in the [Relation](#)

Definition at line 85 of file SketchComponent.java.

**void data\_center.SketchComponent.BioBrick.setBounds (Rectangle *bounds*)**

Definition at line 229 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setChildren (ArrayList< Integer > *children*) [inherited]**

Definition at line 99 of file SketchComponent.java.

**void data\_center.SketchComponent.BioBrick.setColor (Color *color*)**

Definition at line 237 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setCurve (ArrayList< Point > *curve*) [inherited]**

Definition at line 93 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setFont (Font *font*) [inherited]**

Definition at line 77 of file SketchComponent.java.

**void data\_center.SketchComponent.BioBrick.setSecondaryType (Integer *type*)**

Definition at line 211 of file SketchComponent.java.

**void data\_center.SketchComponent.BioBrick.setString (String *bbkName*)**

Set bbkOutline by bbkName in the function, if there's no such bbkName in the database, bbkOutline will be a null

Definition at line 221 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setThickness (double *thickness*) [inherited]**

Definition at line 88 of file SketchComponent.java.

[BackBone](#) **data\_center.SketchComponent.Component.toBackBone () [inherited]**

Definition at line 39 of file SketchComponent.java.

[BioBrick](#) **data\_center.SketchComponent.Component.toBioBrick () [inherited]**

Definition at line 33 of file SketchComponent.java.

[BioVector](#) **data\_center.SketchComponent.Component.toBioVictor () [inherited]**

Definition at line 45 of file SketchComponent.java.

[Label](#) **data\_center.SketchComponent.Component.toLabel () [inherited]**

Definition at line 30 of file SketchComponent.java.

[Protein](#) **data\_center.SketchComponent.Component.toProtein () [inherited]**

Definition at line 36 of file SketchComponent.java.

[Relation](#) **data\_center.SketchComponent.Component.toRelation () [inherited]**

Definition at line 42 of file SketchComponent.java.

[BioBrick](#) **data\_center.SketchComponent.BioBrick.toSubclass ()**

Definition at line 203 of file SketchComponent.java.

---

## **Member Data Documentation**

[BbkOutline](#) **data\_center.SketchComponent.BioBrick.bbkOutline = null**

Definition at line 174 of file SketchComponent.java.

**Rectangle data\_center.SketchComponent.BioBrick.bounds**

Definition at line 176 of file SketchComponent.java.

**Color data\_center.SketchComponent.BioBrick.color**

Definition at line 177 of file SketchComponent.java.

**int data\_center.SketchComponent.Component.ID [inherited]**

Definition at line 16 of file SketchComponent.java.

**String data\_center.SketchComponent.Component.primaryType [inherited]**

Definition at line 17 of file SketchComponent.java.

**int data\_center.SketchComponent.BioBrick.secondaryType**

Definition at line 175 of file SketchComponent.java.

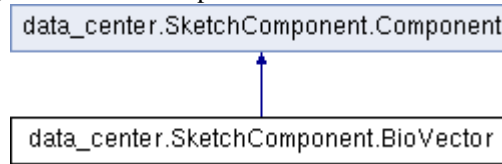
---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/SketchComponent.java

## data\_center.SketchComponent.BioVector Class Reference

Inheritance diagram for data\_center.SketchComponent.BioVector:



### Public Member Functions

[BioVector](#) (int theID, int [secondaryType](#), Rectangle [bounds](#))

[BioVector toSubclass](#) ()

Integer [getSecondaryType](#) ()

void [setSecondaryType](#) (Integer type)

Rectangle [getBounds](#) ()

void [setBounds](#) (Rectangle [bounds](#))

void [display](#) ()

[Label toLabel](#) ()

[BioBrick toBioBrick](#) ()

[Protein toProtein](#) ()

[BackBone toBackBone](#) ()

[Relation toRelation](#) ()

[BioVector toBioVictor](#) ()

String [getString](#) ()

void [setString](#) (String str)

Font [getFont](#) ()

void [setFont](#) (Font font)

Color [getColor](#) ()

void [setColor](#) (Color color)

Double [getThickness](#) ()

void [setThickness](#) (double thickness)

ArrayList< Point > [getCurve](#) ()

void [setCurve](#) (ArrayList< Point > curve)

ArrayList< Integer > [getChildren](#) ()

void [setChildren](#) (ArrayList< Integer > children)

### Public Attributes

int [secondaryType](#)

Rectangle [bounds](#)

int [ID](#)

String [primaryType](#)

---

### Detailed Description

Definition at line 431 of file SketchComponent.java.

---

## Constructor & Destructor Documentation

**data\_center.SketchComponent.BioVector.BioVector (int *theID*, int *secondaryType*, Rectangle *bounds*)**

Definition at line 436 of file SketchComponent.java.

---

## Member Function Documentation

**void data\_center.SketchComponent.BioVector.display ()**

Definition at line 463 of file SketchComponent.java.

**Rectangle data\_center.SketchComponent.BioVector.getBounds ()**

Definition at line 456 of file SketchComponent.java.

**ArrayList<Integer> data\_center.SketchComponent.Component.getChildren () [inherited]**  
bbkChildren in backBone, the IDs

Definition at line 96 of file SketchComponent.java.

**Color data\_center.SketchComponent.Component.getColor () [inherited]**

Definition at line 79 of file SketchComponent.java.

**ArrayList<Point> data\_center.SketchComponent.Component.getCurve () [inherited]**



Definition at line 90 of file SketchComponent.java.

**Font data\_center.SketchComponent.Component.getFont () [inherited]**

Definition at line 74 of file SketchComponent.java.

**Integer data\_center.SketchComponent.BioVector.getSecondaryType ()**

Definition at line 448 of file SketchComponent.java.

**String data\_center.SketchComponent.Component.getString () [inherited]**

text for [Label](#), and bbkName for [BioBrick](#)

Definition at line 59 of file SketchComponent.java.

**Double data\_center.SketchComponent.Component.getThickness () [inherited]**

the thickness in the [Relation](#)

Definition at line 85 of file SketchComponent.java.

**void data\_center.SketchComponent.BioVector.setBounds (Rectangle *bounds*)**

Definition at line 460 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setChildren (ArrayList< Integer > *children*) [inherited]**

Definition at line 99 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setColor (Color *color*) [inherited]**

Definition at line 82 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setCurve (ArrayList< Point > *curve*) [inherited]**

Definition at line 93 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setFont (Font *font*) [inherited]**

Definition at line 77 of file SketchComponent.java.

**void data\_center.SketchComponent.BioVector.setSecondaryType (Integer *type*)**

Definition at line 452 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setString (String *str*) [inherited]**  
text for [Label](#), and bbkName for [BioBrick](#)

Definition at line 63 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setThickness (double *thickness*) [inherited]**

Definition at line 88 of file SketchComponent.java.

[BackBone](#) **data\_center.SketchComponent.Component.toBackBone () [inherited]**

Definition at line 39 of file SketchComponent.java.

[BioBrick](#) **data\_center.SketchComponent.Component.toBioBrick () [inherited]**

Definition at line 33 of file SketchComponent.java.

[BioVector](#) **data\_center.SketchComponent.Component.toBioVictor () [inherited]**

Definition at line 45 of file SketchComponent.java.

[Label](#) **data\_center.SketchComponent.Component.toLabel () [inherited]**

Definition at line 30 of file SketchComponent.java.

[Protein](#) **data\_center.SketchComponent.Component.toProtein () [inherited]**

Definition at line 36 of file SketchComponent.java.

[Relation](#) **data\_center.SketchComponent.Component.toRelation () [inherited]**

Definition at line 42 of file SketchComponent.java.

[BioVector](#) **data\_center.SketchComponent.BioVector.toSubclass ()**

Definition at line 444 of file SketchComponent.java.

---

## Member Data Documentation

**Rectangle data\_center.SketchComponent.BioVector.bounds**

Definition at line 434 of file SketchComponent.java.

**int data\_center.SketchComponent.Component.ID [inherited]**

Definition at line 16 of file SketchComponent.java.

**String data\_center.SketchComponent.Component.primaryType [inherited]**

Definition at line 17 of file SketchComponent.java.

**int data\_center.SketchComponent.BioVector.secondaryType**

Definition at line 433 of file SketchComponent.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç±â • %å\$†/SJTU-Software\_2014/src/data\_center/SketchComponent.java

## data\_center.BbkType.Sketch.BioVector Class Reference

### Static Public Attributes

static final int [PLASMID](#) = 0  
static final int [VIRUS](#) = 1  
static final int [BACTERIA](#) = 2  
static final int [PLANT\\_CELL](#) = 3  
static final int [ANIMAL\\_CELL](#) = 4

---

### Detailed Description

Definition at line 83 of file BbkType.java.

---

### Member Data Documentation

**final int data\_center.BbkType.Sketch.BioVector.ANIMAL\_CELL = 4 [static]**

Definition at line 89 of file BbkType.java.

**final int data\_center.BbkType.Sketch.BioVector.BACTERIA = 2 [static]**

Definition at line 87 of file BbkType.java.

**final int data\_center.BbkType.Sketch.BioVector.PLANT\_CELL = 3 [static]**

Definition at line 88 of file BbkType.java.

**final int data\_center.BbkType.Sketch.BioVector.PLASMID = 0 [static]**

Definition at line 85 of file BbkType.java.

```
final int data_center.BbkType.Sketch.BioVector.VIRUS = 1 [static]
```

Definition at line 86 of file BbkType.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkType.java

## data\_center.BbkOutline.Blasting Class Reference

### Public Attributes

double [score](#)  
double [eValue](#)

---

### Detailed Description

The evaluation criteria stored when blasting.

Definition at line 171 of file BbkOutline.java.

---

### Member Data Documentation

#### double data\_center.BbkOutline.Blasting.eValue

Definition at line 174 of file BbkOutline.java.

#### double data\_center.BbkOutline.Blasting.score

Definition at line 173 of file BbkOutline.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkOutline.java

## data\_center.BlastingSearcher Class Reference

---

### Detailed Description

The class to connect to the remote server set up by SJTU-software to execute a blast compare between the sequence provided and the sequence in the current biobrick database. The class depends on the class [DatabaseConnector](#) to get the [BbkOutline](#) instances.

Definition at line 21 of file BlastingSearcher.java.

---

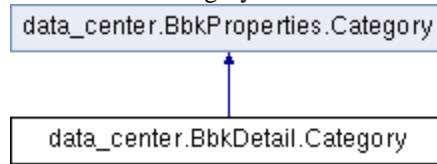
The documentation for this class was generated from the following file:

D:/\_About å-ä¹/ç±å • %å§†/SJTU-Software\_2014/src/data\_center/BlastingSearcher.java



## data\_center.BbkDetail.Category Class Reference

Inheritance diagram for data\_center.BbkDetail.Category:



### Public Member Functions

[Category](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [category](#)

---

### Detailed Description

Definition at line 46 of file BbkDetail.java.

---

### Constructor & Destructor Documentation

**data\_center.BbkDetail.Category.Category (ResultSet *resultSet*) throws SQLException**

Definition at line 48 of file BbkDetail.java.

---

### Member Data Documentation

**String data\_center.BbkProperties.Category.category [inherited]**

Definition at line 12 of file BbkProperties.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkDetail.java

## data\_center.DBConsts.Header.Category Class Reference

### Static Public Attributes

static final String [CATEGORY](#) = "category"

---

### Detailed Description

Definition at line 95 of file DBConsts.java.

---

### Member Data Documentation

**final String data\_center.DBConsts.Header.Category.CATEGORY = "category" [static]**

Definition at line 97 of file DBConsts.java.

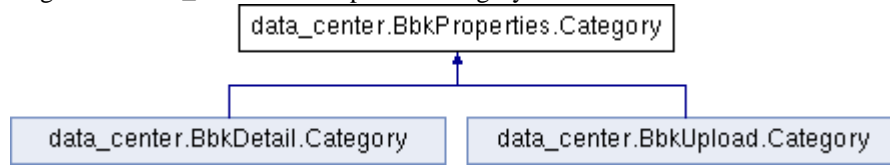
---

**The documentation for this class was generated from the following file:**

D:/\_About ǎ-ǎ¹/ç^±ǎ • %ǎǎ§†/SJTU-Software\_2014/src/data\_center/DBConsts.java

## data\_center.BbkProperties.Category Class Reference

Inheritance diagram for data\_center.BbkProperties.Category:



### Public Member Functions

[Category](#) ()

[Category](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [category](#)

---

### Detailed Description

Definition at line 10 of file BbkProperties.java.

---

### Constructor & Destructor Documentation

#### data\_center.BbkProperties.Category.Category ()

Definition at line 14 of file BbkProperties.java.

#### data\_center.BbkProperties.Category.Category (ResultSet *resultSet*) throws SQLException

Definition at line 16 of file BbkProperties.java.

---

### Member Data Documentation

#### String data\_center.BbkProperties.Category.category

Definition at line 12 of file BbkProperties.java.

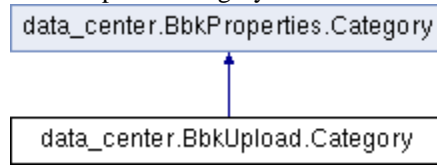
---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkProperties.java

## data\_center.BbkUpload.Category Class Reference

Inheritance diagram for data\_center.BbkUpload.Category:



### Public Member Functions

[Category](#) (String [category](#))

[Category](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [category](#)

---

### Detailed Description

Definition at line 138 of file BbkUpload.java.

---

### Constructor & Destructor Documentation

#### data\_center.BbkUpload.Category.Category (String *category*)

Definition at line 140 of file BbkUpload.java.

#### data\_center.BbkUpload.Category.Category (ResultSet *resultSet*) throws SQLException

Used to fill data from database when modify uploaded bbk

Definition at line 146 of file BbkUpload.java.

---

### Member Data Documentation

#### String data\_center.BbkProperties.Category.category [inherited]

Definition at line 12 of file BbkProperties.java.

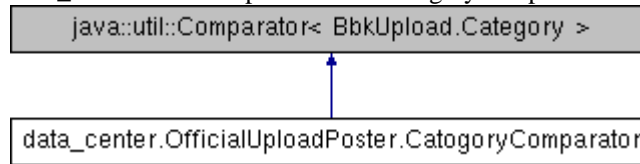
---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkUpload.java

## data\_center.OfficialUploadPoster.CatogoryComparator Class Reference

Inheritance diagram for data\_center.OfficialUploadPoster.CatogoryComparator:



### Public Member Functions

[CatogoryComparator](#) ()

[CatogoryComparator](#) (int order)

int [compare](#) ([Category](#) o1, [Category](#) o2)

### Static Public Attributes

static final int [ASC](#) = 1

static final int [DESC](#) = -1

---

### Detailed Description

The comparator to sort the categories. When posting, the newly posted item's id is set to 999, the previously posted need to be posted in sorted order along with the newest one.

Definition at line 315 of file OfficialUploadPoster.java.

---

### Constructor & Destructor Documentation

#### data\_center.OfficialUploadPoster.CatogoryComparator.CatogoryComparator ()

Definition at line 323 of file OfficialUploadPoster.java.

#### data\_center.OfficialUploadPoster.CatogoryComparator.CatogoryComparator (int order)

Definition at line 327 of file OfficialUploadPoster.java.

---

## Member Function Documentation

**int data\_center.OfficialUploadPoster.CatogoryComparator.compare ([Category](#) o1, [Category](#) o2)**

Definition at line 336 of file OfficialUploadPoster.java.

---

## Member Data Documentation

**final int data\_center.OfficialUploadPoster.CatogoryComparator.ASC = 1 [static]**

Definition at line 317 of file OfficialUploadPoster.java.

**final int data\_center.OfficialUploadPoster.CatogoryComparator.DESC = -1 [static]**

Definition at line 318 of file OfficialUploadPoster.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç±å • %å§†/SJTU-Software\_2014/src/data\_center/OfficialUploadPoster.java



## data\_center.CompareCenter Class Reference

### Public Member Functions

[CompareCenter](#) ()

[BbkDetail](#) [assignDetail](#) (String bbkName, int pos)

[BbkDetail](#) [getDetail](#) (int pos)

### Public Attributes

[BbkDetail](#)[] [compareList](#) = {null, null, null}

---

### Detailed Description

Provide a comparison between up to 3 bbkDetails, pos == 0, 1, 2

Definition at line 4 of file CompareCenter.java.

---

### Constructor & Destructor Documentation

#### data\_center.CompareCenter.CompareCenter ()

Definition at line 8 of file CompareCenter.java.

---

### Member Function Documentation

#### [BbkDetail](#) data\_center.CompareCenter.assignDetail (String *bbkName*, int *pos*)

Specify a bbkName to inquire in the database, set it in the list and return.

##### Returns:

The [BbkDetail](#) instance just assigned, null if the bbkName is not in database or the pos is not 0, 1 or 2.

Definition at line 13 of file CompareCenter.java.

#### [BbkDetail](#) data\_center.CompareCenter.getDetail (int *pos*)

Check the detail stored in the 3 slots in the compareCenter.

Definition at line 26 of file CompareCenter.java.

---

## Member Data Documentation

[BbkDetail](#) [] data\_center.CompareCenter.compareList = {null, null, null}

Definition at line 6 of file CompareCenter.java.

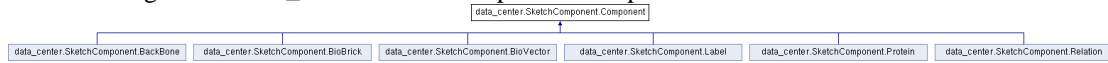
---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/CompareCenter.java

## data\_center.SketchComponent.Component Class Reference

Inheritance diagram for data\_center.SketchComponent.Component:



### Public Member Functions

[Component](#) (int theID, String theType)  
abstract [Component toSubclass](#) ()  
[Label toLabel](#) ()  
[BioBrick toBioBrick](#) ()  
[Protein toProtein](#) ()  
[BackBone toBackBone](#) ()  
[Relation toRelation](#) ()  
[BioVector toBioVector](#) ()  
Integer [getSecondaryType](#) ()  
void [setSecondaryType](#) (Integer type)  
String [getString](#) ()  
void [setString](#) (String str)  
Rectangle [getBounds](#) ()  
void [setBounds](#) (Rectangle rect)  
Font [getFont](#) ()  
void [setFont](#) (Font font)  
Color [getColor](#) ()  
void [setColor](#) (Color color)  
Double [getThickness](#) ()  
void [setThickness](#) (double thickness)  
ArrayList< Point > [getCurve](#) ()  
void [setCurve](#) (ArrayList< Point > curve)  
ArrayList< Integer > [getChildren](#) ()  
void [setChildren](#) (ArrayList< Integer > children)  
void [display](#) ()

### Public Attributes

int [ID](#)  
String [primaryType](#)

---

### Detailed Description

The class to be extended by the 6 subclasses. Providing all the required set/get functions. Including toXXXXX() to make class cast easier~

Definition at line 14 of file SketchComponent.java.

---

### Constructor & Destructor Documentation

**data\_center.SketchComponent.Component.Component** (int *theID*, String *theType*)

Definition at line 19 of file SketchComponent.java.

---

## Member Function Documentation

### **void data\_center.SketchComponent.Component.display ()**

Definition at line 101 of file SketchComponent.java.

### **Rectangle data\_center.SketchComponent.Component.getBounds ()**

The bounds specify both the position and the size of the component. The position is the location of the left upper corner.

Definition at line 67 of file SketchComponent.java.

### **ArrayList<Integer> data\_center.SketchComponent.Component.getChildren ()**

bbkChildren in backBone, the IDs

Definition at line 96 of file SketchComponent.java.

### **Color data\_center.SketchComponent.Component.getColor ()**

Definition at line 79 of file SketchComponent.java.

### **ArrayList<Point> data\_center.SketchComponent.Component.getCurve ()**

Definition at line 90 of file SketchComponent.java.

### **Font data\_center.SketchComponent.Component.getFont ()**

Definition at line 74 of file SketchComponent.java.

### **Integer data\_center.SketchComponent.Component.getSecondaryType ()**

Definition at line 52 of file SketchComponent.java.

### **String data\_center.SketchComponent.Component.getString ()**

text for [Label](#), and bbkName for [BioBrick](#)

Definition at line 59 of file SketchComponent.java.

### **Double data\_center.SketchComponent.Component.getThickness ()**

the thickness in the [Relation](#)

Definition at line 85 of file SketchComponent.java.

### **void data\_center.SketchComponent.Component.setBounds (Rectangle *rect*)**

The bounds specify both the position and the size of the component. The position is the location of the left upper corner.

Definition at line 72 of file SketchComponent.java.

### **void data\_center.SketchComponent.Component.setChildren (ArrayList< Integer > *children*)**

Definition at line 99 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setColor (Color *color*)**

Definition at line 82 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setCurve (ArrayList< Point > *curve*)**

Definition at line 93 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setFont (Font *font*)**

Definition at line 77 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setSecondaryType (Integer *type*)**

Secondary type is defined in [BbkType.Sketch](#)

Definition at line 56 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setString (String *str*)**

text for [Label](#), and bbkName for [BioBrick](#)

Definition at line 63 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setThickness (double *thickness*)**

Definition at line 88 of file SketchComponent.java.

[BackBone](#) **data\_center.SketchComponent.Component.toBackBone ()**

Definition at line 39 of file SketchComponent.java.

[BioBrick](#) **data\_center.SketchComponent.Component.toBioBrick ()**

Definition at line 33 of file SketchComponent.java.

[BioVector](#) **data\_center.SketchComponent.Component.toBioVictor ()**

Definition at line 45 of file SketchComponent.java.

[Label](#) **data\_center.SketchComponent.Component.toLabel ()**

Definition at line 30 of file SketchComponent.java.

[Protein](#) **data\_center.SketchComponent.Component.toProtein ()**

Definition at line 36 of file SketchComponent.java.

[Relation](#) **data\_center.SketchComponent.Component.toRelation ()**

Definition at line 42 of file SketchComponent.java.

**abstract [Component](#) data\_center.SketchComponent.Component.toSubclass () [abstract]**

This function is used to be inherited to convert [Component](#) object into its subclasses using convariant, but seems failed...

---

## Member Data Documentation

**int data\_center.SketchComponent.Component.ID**

Definition at line 16 of file SketchComponent.java.

**String data\_center.SketchComponent.Component.primaryType**

Definition at line 17 of file SketchComponent.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/SketchComponent.java



## data\_center.DatabaseConnector Class Reference

---

### Detailed Description

The class to connect the EasyBbk and the database by SJTU-software.

Definition at line 9 of file DatabaseConnector.java.

---

The documentation for this class was generated from the following file:

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/DatabaseConnector.java

## data\_center.DataCenter Class Reference

### Public Member Functions

[DataCenter](#) ()

### Public Attributes

[SearchCenter](#) [searchCenter](#)

[SketchCenter](#) [sketchCenter](#)

[CompareCenter](#) [compareCenter](#)

[UploadCenter](#) [uploadCenter](#)

---

### Detailed Description

The overall function of the package [data\\_center](#). Keep the Datacenter instance to get access to the searchCenter, sketchCenter, compareCenter, uploadCenter, which provide all of the main function in EasyBbk.

Definition at line 6 of file DataCenter.java.

---

### Constructor & Destructor Documentation

#### data\_center.DataCenter.DataCenter ()

Definition at line 13 of file DataCenter.java.

---

### Member Data Documentation

#### [CompareCenter](#) data\_center.DataCenter.compareCenter

Definition at line 10 of file DataCenter.java.

#### [SearchCenter](#) data\_center.DataCenter.searchCenter

Definition at line 8 of file DataCenter.java.

[SketchCenter](#) data\_center.DataCenter.sketchCenter

Definition at line 9 of file DataCenter.java.

[UploadCenter](#) data\_center.DataCenter.uploadCenter

Definition at line 11 of file DataCenter.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/DataCenter.java

## data\_center.DBConsts Class Reference

### Classes

class [Header](#)

class [Rating](#)

class [Table](#)

---

### Detailed Description

Store all the constant in the Database, including headers and default score weights

Definition at line 5 of file DBConsts.java.

---

The documentation for this class was generated from the following file:

D:/\_About ǎ-ǎ¹/ç^±ǎ • %ǎǎ§†/SJTU-Software\_2014/src/data\_center/DBConsts.java

## data\_center.DBConsts.Header.DeepSub Class Reference

### Static Public Attributes

```
static final String ID = "subpart_id"
static final String NAME = "subpart_name"
static final String SHORT\_DESC = "subpart_short_desc"
static final String TYPE = "subpart_type"
static final String NICKNAME = "subpart_nickname"
```

---

### Detailed Description

DeepSubpart.ID != ID

Definition at line 101 of file DBConsts.java.

---

### Member Data Documentation

**final String data\_center.DBConsts.Header.DeepSub.ID = "subpart\_id" [static]**

Definition at line 103 of file DBConsts.java.

**final String data\_center.DBConsts.Header.DeepSub.NAME = "subpart\_name" [static]**

Definition at line 104 of file DBConsts.java.

**final String data\_center.DBConsts.Header.DeepSub.NICKNAME = "subpart\_nickname" [static]**

Definition at line 107 of file DBConsts.java.

**final String data\_center.DBConsts.Header.DeepSub.SHORT\_DESC = "subpart\_short\_desc" [static]**

Definition at line 105 of file DBConsts.java.

```
final String data_center.DBConsts.Header.DeepSub.TYPE = "subpart_type" [static]
```

Definition at line 106 of file DBConsts.java.

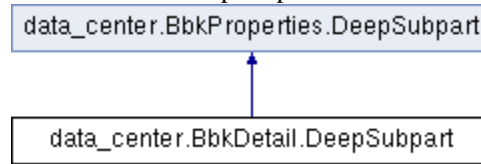
---

**The documentation for this class was generated from the following file:**

D:/\_About ǎ-ǎ¹/ç^±ǎ • %ǎǎ§†/SJTU-Software\_2014/src/data\_center/DBConsts.java

## data\_center.BbkDetail.DeepSubpart Class Reference

Inheritance diagram for data\_center.BbkDetail.DeepSubpart:



### Public Member Functions

[DeepSubpart](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [ID](#)

String [name](#)

String [shortDesc](#)

String [type](#)

String [nickname](#)

---

### Detailed Description

Definition at line 52 of file BbkDetail.java.

---

### Constructor & Destructor Documentation

**data\_center.BbkDetail.DeepSubpart.DeepSubpart (ResultSet *resultSet*) throws SQLException**

Definition at line 54 of file BbkDetail.java.

---

### Member Data Documentation

**String data\_center.BbkProperties.DeepSubpart.ID [inherited]**

Definition at line 24 of file BbkProperties.java.

**String data\_center.BbkProperties.DeepSubpart.name [inherited]**

Definition at line 25 of file BbkProperties.java.

**String data\_center.BbkProperties.DeepSubpart.nickname [inherited]**

Definition at line 28 of file BbkProperties.java.

**String data\_center.BbkProperties.DeepSubpart.shortDesc [inherited]**

Definition at line 26 of file BbkProperties.java.

**String data\_center.BbkProperties.DeepSubpart.type [inherited]**

Definition at line 27 of file BbkProperties.java.

---

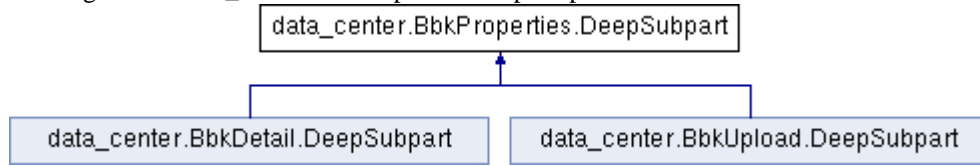
**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkDetail.java



## data\_center.BbkProperties.DeepSubpart Class Reference

Inheritance diagram for data\_center.BbkProperties.DeepSubpart:



### Public Member Functions

[DeepSubpart](#) ()

[DeepSubpart](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [ID](#)

String [name](#)

String [shortDesc](#)

String [type](#)

String [nickname](#)

---

### Detailed Description

Definition at line 22 of file BbkProperties.java.

---

### Constructor & Destructor Documentation

**data\_center.BbkProperties.DeepSubpart.DeepSubpart ()**

Definition at line 30 of file BbkProperties.java.

**data\_center.BbkProperties.DeepSubpart.DeepSubpart (ResultSet *resultSet*) throws SQLException**

Definition at line 32 of file BbkProperties.java.

---

## Member Data Documentation

### String data\_center.BbkProperties.DeepSubpart.ID

Definition at line 24 of file BbkProperties.java.

### String data\_center.BbkProperties.DeepSubpart.name

Definition at line 25 of file BbkProperties.java.

### String data\_center.BbkProperties.DeepSubpart.nickname

Definition at line 28 of file BbkProperties.java.

### String data\_center.BbkProperties.DeepSubpart.shortDesc

Definition at line 26 of file BbkProperties.java.

### String data\_center.BbkProperties.DeepSubpart.type

Definition at line 27 of file BbkProperties.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å\$†/SJTU-Software\_2014/src/data\_center/BbkProperties.java

## data\_center.BbkUpload.DeepSubpart Class Reference

Inheritance diagram for data\_center.BbkUpload.DeepSubpart:



### Public Member Functions

[DeepSubpart](#) (BbkDetail.DeepSubpart subpart)

[DeepSubpart](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [ID](#)

String [name](#)

String [shortDesc](#)

String [type](#)

String [nickname](#)

---

### Detailed Description

Definition at line 189 of file BbkUpload.java.

---

### Constructor & Destructor Documentation

**data\_center.BbkUpload.DeepSubpart.DeepSubpart (BbkDetail.DeepSubpart *subpart*)**

Definition at line 191 of file BbkUpload.java.

**data\_center.BbkUpload.DeepSubpart.DeepSubpart (ResultSet *resultSet*) throws SQLException**

Used to fill data from database when modify uploaded bbk

Definition at line 201 of file BbkUpload.java.

---

## Member Data Documentation

**String data\_center.BbkProperties.DeepSubpart.ID** [inherited]

Definition at line 24 of file BbkProperties.java.

**String data\_center.BbkProperties.DeepSubpart.name** [inherited]

Definition at line 25 of file BbkProperties.java.

**String data\_center.BbkProperties.DeepSubpart.nickname** [inherited]

Definition at line 28 of file BbkProperties.java.

**String data\_center.BbkProperties.DeepSubpart.shortDesc** [inherited]

Definition at line 26 of file BbkProperties.java.

**String data\_center.BbkProperties.DeepSubpart.type** [inherited]

Definition at line 27 of file BbkProperties.java.

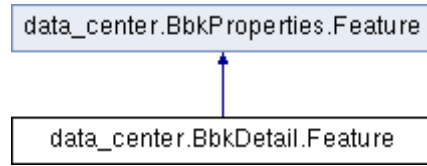
---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkUpload.java

## data\_center.BbkDetail.Feature Class Reference

Inheritance diagram for data\_center.BbkDetail.Feature:



### Public Member Functions

[Feature](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [ID](#)  
String [title](#)  
String [type](#)  
String [direction](#)  
String [startPos](#)  
String [endPos](#)

---

### Detailed Description

Definition at line 58 of file BbkDetail.java.

---

### Constructor & Destructor Documentation

**data\_center.BbkDetail.Feature.Feature (ResultSet *resultSet*) throws SQLException**

Definition at line 60 of file BbkDetail.java.

---

### Member Data Documentation

**String data\_center.BbkProperties.Feature.direction [inherited]**

Definition at line 47 of file BbkProperties.java.

**String data\_center.BbkProperties.Feature.endPos [inherited]**

Definition at line 49 of file BbkProperties.java.

**String data\_center.BbkProperties.Feature.ID [inherited]**

Definition at line 44 of file BbkProperties.java.

**String data\_center.BbkProperties.Feature.startPos [inherited]**

Definition at line 48 of file BbkProperties.java.

**String data\_center.BbkProperties.Feature.title [inherited]**

Definition at line 45 of file BbkProperties.java.

**String data\_center.BbkProperties.Feature.type [inherited]**

Definition at line 46 of file BbkProperties.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkDetail.java

## data\_center.DBConsts.Header.Feature Class Reference

### Static Public Attributes

```
static final String ID = "id"  
static final String TITLE = "title"  
static final String TYPE = "type"  
static final String DIRECTION = "direction"  
static final String START\_POS = "startpos"  
static final String END\_POS = "endpos"
```

---

### Detailed Description

Definition at line 110 of file DBConsts.java.

---

### Member Data Documentation

**final String data\_center.DBConsts.Header.Feature.DIRECTION = "direction" [static]**

Definition at line 115 of file DBConsts.java.

**final String data\_center.DBConsts.Header.Feature.END\_POS = "endpos" [static]**

Definition at line 117 of file DBConsts.java.

**final String data\_center.DBConsts.Header.Feature.ID = "id" [static]**

Definition at line 112 of file DBConsts.java.

**final String data\_center.DBConsts.Header.Feature.START\_POS = "startpos" [static]**

Definition at line 116 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Feature.TITLE = "title" [static]
```

Definition at line 113 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Feature.TYPE = "type" [static]
```

Definition at line 114 of file DBConsts.java.

---

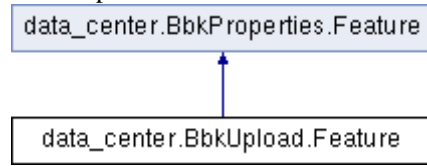
**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/DBConsts.java



## data\_center.BbkUpload.Feature Class Reference

Inheritance diagram for data\_center.BbkUpload.Feature:



### Public Member Functions

[Feature](#) (String [ID](#), String [title](#), String [type](#), String [direction](#), String [startPos](#), String [endPos](#))  
[Feature](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [ID](#)  
String [title](#)  
String [type](#)  
String [direction](#)  
String [startPos](#)  
String [endPos](#)

---

### Detailed Description

Definition at line 150 of file BbkUpload.java.

---

### Constructor & Destructor Documentation

**data\_center.BbkUpload.Feature.Feature (String *ID*, String *title*, String *type*, String *direction*, String *startPos*, String *endPos*)**

Definition at line 152 of file BbkUpload.java.

**data\_center.BbkUpload.Feature.Feature (ResultSet *resultSet*) throws SQLException**

Used to fill data from database when modify uploaded bbk

Definition at line 164 of file BbkUpload.java.

---

## Member Data Documentation

**String data\_center.BbkProperties.Feature.direction** [inherited]

Definition at line 47 of file BbkProperties.java.

**String data\_center.BbkProperties.Feature.endPos** [inherited]

Definition at line 49 of file BbkProperties.java.

**String data\_center.BbkProperties.Feature.ID** [inherited]

Definition at line 44 of file BbkProperties.java.

**String data\_center.BbkProperties.Feature.startPos** [inherited]

Definition at line 48 of file BbkProperties.java.

**String data\_center.BbkProperties.Feature.title** [inherited]

Definition at line 45 of file BbkProperties.java.

**String data\_center.BbkProperties.Feature.type** [inherited]

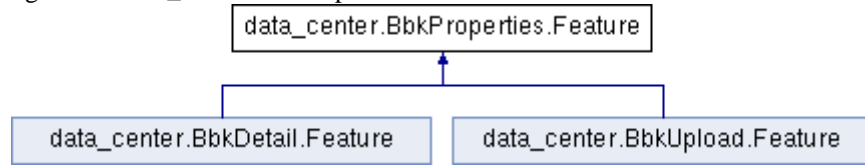
Definition at line 46 of file BbkProperties.java.

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkUpload.java

## data\_center.BbkProperties.Feature Class Reference

Inheritance diagram for data\_center.BbkProperties.Feature:



### Public Member Functions

[Feature](#) ()

[Feature](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [ID](#)

String [title](#)

String [type](#)

String [direction](#)

String [startPos](#)

String [endPos](#)

---

### Detailed Description

Definition at line 42 of file BbkProperties.java.

---

### Constructor & Destructor Documentation

#### data\_center.BbkProperties.Feature.Feature ()

Definition at line 51 of file BbkProperties.java.

#### data\_center.BbkProperties.Feature.Feature (ResultSet *resultSet*) throws SQLException

Definition at line 53 of file BbkProperties.java.

---

## Member Data Documentation

### **String data\_center.BbkProperties.Feature.direction**

Definition at line 47 of file BbkProperties.java.

### **String data\_center.BbkProperties.Feature.endPos**

Definition at line 49 of file BbkProperties.java.

### **String data\_center.BbkProperties.Feature.ID**

Definition at line 44 of file BbkProperties.java.

### **String data\_center.BbkProperties.Feature.startPos**

Definition at line 48 of file BbkProperties.java.

### **String data\_center.BbkProperties.Feature.title**

Definition at line 45 of file BbkProperties.java.

### **String data\_center.BbkProperties.Feature.type**

Definition at line 46 of file BbkProperties.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkProperties.java

## data\_center.DBConsts.Header Class Reference

### Classes

class [Category](#)  
class [DeepSub](#)  
class [Feature](#)  
class [Main](#)  
class [Parameter](#)  
class [SpecScar](#)  
class [SpecSub](#)  
class [Twin](#)

---

### Detailed Description

Definition at line 50 of file DBConsts.java.

---

The documentation for this class was generated from the following file:

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/DBConsts.java

## data\_center.SketchComponent.Label Class Reference

Inheritance diagram for data\_center.SketchComponent.Label:



### Public Member Functions

[Label](#) (int theID, String [text](#), Rectangle [bounds](#), Font [font](#), Color [color](#))

[Label toSubclass](#) ()

String [getString](#) ()

void [setString](#) (String [text](#))

Rectangle [getBounds](#) ()

void [setBounds](#) (Rectangle [bounds](#))

Font [getFont](#) ()

void [setFont](#) (Font [font](#))

Color [getColor](#) ()

void [setColor](#) (Color [color](#))

void [display](#) ()

[Label toLabel](#) ()

[BioBrick toBioBrick](#) ()

[Protein toProtein](#) ()

[BackBone toBackBone](#) ()

[Relation toRelation](#) ()

[BioVector toBioVictor](#) ()

Integer [getSecondaryType](#) ()

void [setSecondaryType](#) (Integer type)

Double [getThickness](#) ()

void [setThickness](#) (double thickness)

ArrayList< Point > [getCurve](#) ()

void [setCurve](#) (ArrayList< Point > curve)

ArrayList< Integer > [getChildren](#) ()

void [setChildren](#) (ArrayList< Integer > children)

### Public Attributes

String [text](#)

Rectangle [bounds](#)

Font [font](#)

Color [color](#)

int [ID](#)

String [primaryType](#)

---

### Detailed Description

Definition at line 110 of file SketchComponent.java.

---



## Constructor & Destructor Documentation

**data\_center.SketchComponent.Label.Label (int *theID*, String *text*, Rectangle *bounds*, Font *font*, Color *color*)**

Definition at line 118 of file SketchComponent.java.

---

## Member Function Documentation

**void data\_center.SketchComponent.Label.display ()**

Definition at line 164 of file SketchComponent.java.

**Rectangle data\_center.SketchComponent.Label.getBounds ()**

Definition at line 141 of file SketchComponent.java.

**ArrayList<Integer> data\_center.SketchComponent.Component.getChildren () [inherited]**  
bbkChildren in backBone, the IDs

Definition at line 96 of file SketchComponent.java.

**Color data\_center.SketchComponent.Label.getColor ()**

Definition at line 157 of file SketchComponent.java.

**ArrayList<Point> data\_center.SketchComponent.Component.getCurve () [inherited]**

Definition at line 90 of file SketchComponent.java.

### **Font data\_center.SketchComponent.Label.getFont ()**

Definition at line 149 of file SketchComponent.java.

### **Integer data\_center.SketchComponent.Component.getSecondaryType () [inherited]**

Definition at line 52 of file SketchComponent.java.

### **String data\_center.SketchComponent.Label.getString ()**

Definition at line 133 of file SketchComponent.java.

### **Double data\_center.SketchComponent.Component.getThickness () [inherited]**

the thickness in the [Relation](#)

Definition at line 85 of file SketchComponent.java.

### **void data\_center.SketchComponent.Label.setBounds (Rectangle *bounds*)**

Definition at line 145 of file SketchComponent.java.

### **void data\_center.SketchComponent.Component.setChildren (ArrayList< Integer > *children*) [inherited]**

Definition at line 99 of file SketchComponent.java.

**void data\_center.SketchComponent.Label.setColor (Color *color*)**

Definition at line 161 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setCurve (ArrayList< Point > *curve*) [inherited]**

Definition at line 93 of file SketchComponent.java.

**void data\_center.SketchComponent.Label.setFont (Font *font*)**

Definition at line 153 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setSecondaryType (Integer *type*) [inherited]**

Secondary type is defined in [BbkType.Sketch](#)

Definition at line 56 of file SketchComponent.java.

**void data\_center.SketchComponent.Label.setString (String *text*)**

Definition at line 137 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setThickness (double *thickness*) [inherited]**

Definition at line 88 of file SketchComponent.java.

[BackBone](#) **data\_center.SketchComponent.Component.toBackBone () [inherited]**

Definition at line 39 of file SketchComponent.java.

[BioBrick](#) **data\_center.SketchComponent.Component.toBioBrick () [inherited]**

Definition at line 33 of file SketchComponent.java.

[BioVector](#) **data\_center.SketchComponent.Component.toBioVictor () [inherited]**

Definition at line 45 of file SketchComponent.java.

[Label](#) **data\_center.SketchComponent.Component.toLabel () [inherited]**

Definition at line 30 of file SketchComponent.java.

[Protein](#) **data\_center.SketchComponent.Component.toProtein () [inherited]**

Definition at line 36 of file SketchComponent.java.

[Relation](#) **data\_center.SketchComponent.Component.toRelation () [inherited]**

Definition at line 42 of file SketchComponent.java.

## **[Label](#) data\_center.SketchComponent.Label.toSubclass ()**

Definition at line 129 of file SketchComponent.java.

---

## **Member Data Documentation**

### **Rectangle data\_center.SketchComponent.Label.bounds**

Definition at line 113 of file SketchComponent.java.

### **Color data\_center.SketchComponent.Label.color**

Definition at line 115 of file SketchComponent.java.

### **Font data\_center.SketchComponent.Label.font**

Definition at line 114 of file SketchComponent.java.

### **int data\_center.SketchComponent.Component.ID [inherited]**

Definition at line 16 of file SketchComponent.java.

### **String data\_center.SketchComponent.Component.primaryType [inherited]**

Definition at line 17 of file SketchComponent.java.

**String data\_center.SketchComponent.Label.text**

Definition at line 112 of file SketchComponent.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/SketchComponent.java

## data\_center.DBConsts.Header.Main Class Reference

### Static Public Attributes

```
static final String NAME = "part_name"
static final String TYPE = "part_type"
static final String AUTHOR = "part_author"
static final String ENTER\_DATE = "part_entered"
static final String SHORT\_DESC = "part_short_desc"
static final String URL = "part_url"
static final String ID = "part_id"
static final String SHORT\_NAME = "part_short_name"
static final String RELEASE\_STATUS = "release_status"
static final String SAMPLE\_STATUS = "sample_status"
static final String RESULTS = "part_results"
static final String NICKNAME = "part_nickname"
static final String PART\_RATING = "part_rating"
static final String SEQUENCE = "sequence"
static final String SAMPLES = "samples"
static final String REFERENCES = "references"
static final String GROUPS = "groups"
static final String DNA\_STATUS = "DNA_status"
static final String GROUP\_FAVOURITE = "Group_favorite"
static final String DELETE\_THIS\_PART = "delete_this_part"
static final String TOT\_CONFIRMED = "tot_confirmed"
static final String DETAIL\_NOT\_CONFIRMED = "detail_not_confirmed"
static final String AVERAGE\_STARS = "average_stars"
static final String TOT\_COMMENTS = "tot_comments"
static final String GOOGLE\_ITEMS = "google_items"
static final String FIRST\_URL = "first_url"
static final String DOCUMENTATION = "documentation"
static final String USED\_TIMES = "used_times"
static final String STATUS = "status"
static final String QUALITY = "quality"
static final String FEEDBACKS = "feedbacks"
static final String PUBLICATION = "publication"
static final String RATING = "rating"
```

---

### Detailed Description

Definition at line 52 of file DBConsts.java.

---

### Member Data Documentation

```
final String data_center.DBConsts.Header.Main.AUTHOR = "part_author" [static]
```

Definition at line 56 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.AVERAGE_STARS =  
"average_stars" [static]
```

Definition at line 79 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.DELETE_THIS_PART =  
"delete_this_part" [static]
```

Definition at line 76 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.DETAIL_NOT_CONFIRMED =  
"detail_not_confirmed" [static]
```

Definition at line 78 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.DNA_STATUS = "DNA_status" [static]
```

Definition at line 72 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.DOCUMENTATION =  
"documentation" [static]
```

Definition at line 83 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.ENTER_DATE = "part_entered" [static]
```



Definition at line 57 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.FEEDBACKS = "feedbacks" [static]
```

Definition at line 88 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.FIRST_URL = "first_url" [static]
```

Definition at line 82 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.GOOGLE_ITEMS =  
"google_items" [static]
```

Definition at line 81 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.GROUP_FAVOURITE =  
"Group_favorite" [static]
```

Definition at line 73 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.GROUPS = "groups" [static]
```

Definition at line 71 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.ID = "part_id" [static]
```

Definition at line 61 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.NAME = "part_name" [static]
```

Definition at line 54 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.NICKNAME = "part_nickname" [static]
```

Definition at line 66 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.PART_RATING = "part_rating" [static]
```

Definition at line 67 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.PUBLICATION = "publication" [static]
```

Definition at line 89 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.QUALITY = "quality" [static]
```

Definition at line 87 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.RATING = "rating" [static]
```

Definition at line 90 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.REFERENCES = "references" [static]
```

Definition at line 70 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.RELEASE_STATUS =  
"release_status" [static]
```

Definition at line 63 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.RESULTS = "part_results" [static]
```

Definition at line 65 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.SAMPLE_STATUS =  
"sample_status" [static]
```

Definition at line 64 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.SAMPLES = "samples" [static]
```

Definition at line 69 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.SEQUENCE = "sequence" [static]
```

Definition at line 68 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.SHORT_DESC =  
"part_short_desc" [static]
```

Definition at line 58 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.SHORT_NAME =  
"part_short_name" [static]
```

Definition at line 62 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.STATUS = "status" [static]
```

Definition at line 86 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.TOT_COMMENTS =  
"tot_comments" [static]
```

Definition at line 80 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.TOT_CONFIRMED =  
"tot_confirmed" [static]
```

Definition at line 77 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.TYPE = "part_type" [static]
```

Definition at line 55 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.URL = "part_url"[static]
```

Definition at line 59 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Main.USED_TIMES = "used_times"[static]
```

Definition at line 84 of file DBConsts.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-å¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/DBConsts.java

# data\_center.OfficialUploadPoster Class Reference

## Classes

class [CatogoryComparator](#)

class [ParamComparator](#)

## Static Public Member Functions

static boolean [login](#) (String username, String password) throws Exception

static String [getNextAvailablePartName](#) () throws Exception

static String[] [getAvailablePartNameRegion](#) () throws Exception

static String [createNewPart](#) (String part\_name, [BbkUpload](#) bbkUpload) throws Exception

static void [modifyPrimaryInfo](#) ([BbkUpload](#) bbkUpload) throws Exception

static void [modifySequence](#) ([BbkUpload](#) bbkUpload) throws Exception

static void [modifyCategories](#) ([BbkUpload](#) bbkUpload) throws Exception

static void [modifyParameters](#) ([BbkUpload](#) bbkUpload) throws Exception

static void [modifyFeatures](#) ([BbkUpload](#) bbkUpload) throws Exception

---

## Detailed Description

This class sends post requests to the official registry and upload a biobrick for the user.

Definition at line 27 of file OfficialUploadPoster.java.

---

## Member Function Documentation

**static String data\_center.OfficialUploadPoster.createNewPart (String *part\_name*, [BbkUpload](#) *bbkUpload*) throws Exception [static]**

Post and create a new part in the registry by the name specified.

### Parameters:

<i>part_name</i>	The part_name, can be any String between the min and the max.
<i>bbkUpload</i>	The Strings wrapped in the <a href="#">BbkUpload</a> instance to be uploaded.

### Returns:

The part\_id generated by the registry.

Definition at line 122 of file OfficialUploadPoster.java.

**static String [] data\_center.OfficialUploadPoster.getAvailablePartNameRegion () throws Exception [static]**

Get the part name region available for the user.

**Returns:**

A String[] which length is 2, specifying the min and the max of the part name available.

Definition at line 97 of file OfficialUploadPoster.java.

**static String data\_center.OfficialUploadPoster.getNextAvailablePartName () throws Exception [static]**

After logging in get the next available part name.

**Returns:**

The next available part name.

Definition at line 66 of file OfficialUploadPoster.java.

**static boolean data\_center.OfficialUploadPoster.login (String username, String password) throws Exception [static]**

Login to the igem.org, uses the username and the password of the user.

**Returns:**

If or not succeeded in logging in.

Definition at line 34 of file OfficialUploadPoster.java.

**static void data\_center.OfficialUploadPoster.modifyCategories ([BbkUpload](#) bbkUpload) throws Exception [static]**

Modify the category info by the String in the [BbkUpload](#) instance.

Definition at line 200 of file OfficialUploadPoster.java.

**static void data\_center.OfficialUploadPoster.modifyFeatures ([BbkUpload](#) bbkUpload) throws Exception [static]**

Modify the feature info by the String in the [BbkUpload](#) instance.

Definition at line 252 of file OfficialUploadPoster.java.

**static void data\_center.OfficialUploadPoster.modifyParameters ([BbkUpload](#) *bbkUpload*)  
throws Exception [static]**

Modify the parameter info by the String in the [BbkUpload](#) instance.

Definition at line 224 of file OfficialUploadPoster.java.

**static void data\_center.OfficialUploadPoster.modifyPrimaryInfo ([BbkUpload](#) *bbkUpload*)  
throws Exception [static]**

Modify the primary info by the String in the [BbkUpload](#) instance.

Definition at line 156 of file OfficialUploadPoster.java.

**static void data\_center.OfficialUploadPoster.modifySequence ([BbkUpload](#) *bbkUpload*)  
throws Exception [static]**

Modify the sequence info by the String in the [BbkUpload](#) instance.

Definition at line 179 of file OfficialUploadPoster.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/OfficialUploadPoster.java



## data\_center.OperationHistory Class Reference

### Public Member Functions

void [newOperation](#) ([SketchOperation](#) operation)  
boolean [canCtrlZ](#) ()  
boolean [canCtrlY](#) ()  
[SketchOperation](#) [ctrlZ](#) ()  
[SketchOperation](#) [ctrlY](#) ()  
void [clear](#) ()  
void [display](#) ()

---

### Detailed Description

The class implements a history list contains roll back and go forward function. Different from the [SearchHistory](#), the [OperationHistory](#) aims the pointer at the nick between data, not the data, like [H H H ]F F] (history, pointer, future)

Definition at line 8 of file OperationHistory.java.

---

### Member Function Documentation

#### boolean data\_center.OperationHistory.canCtrlY ()

Definition at line 24 of file OperationHistory.java.

#### boolean data\_center.OperationHistory.canCtrlZ ()

Definition at line 19 of file OperationHistory.java.

#### void data\_center.OperationHistory.clear ()

Definition at line 53 of file OperationHistory.java.

[SketchOperation](#) data\_center.OperationHistory.ctrlY ()

Definition at line 41 of file OperationHistory.java.

[SketchOperation](#) data\_center.OperationHistory.ctrlZ ()

Definition at line 29 of file OperationHistory.java.

**void data\_center.OperationHistory.display ()**

Definition at line 59 of file OperationHistory.java.

**void data\_center.OperationHistory.newOperation ([SketchOperation](#) operation)**

Definition at line 13 of file OperationHistory.java.

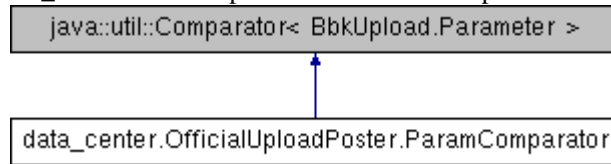
---

**The documentation for this class was generated from the following file:**

D:/\_About å-å¹/ç^±å • %åå\$†/SJTU-Software\_2014/src/data\_center/OperationHistory.java

## data\_center.OfficialUploadPoster.ParamComparator Class Reference

Inheritance diagram for data\_center.OfficialUploadPoster.ParamComparator:



### Public Member Functions

[ParamComparator](#) ()

[ParamComparator](#) (int order)

int [compare](#) (BbkUpload.Parameter o1, BbkUpload.Parameter o2)

### Static Public Attributes

static final int [ASC](#) = 1

static final int [DESC](#) = -1

---

### Detailed Description

The comparator to sort the parameters. When posting, the newly posted item's id is set to 999, the previously posted need to be posted in sorted order along with the newest one.

Definition at line 354 of file OfficialUploadPoster.java.

---

### Constructor & Destructor Documentation

#### data\_center.OfficialUploadPoster.ParamComparator.ParamComparator ()

Definition at line 362 of file OfficialUploadPoster.java.

#### data\_center.OfficialUploadPoster.ParamComparator.ParamComparator (int order)

Definition at line 366 of file OfficialUploadPoster.java.

---

## Member Function Documentation

**int data\_center.OfficialUploadPoster.ParamComparator.compare (BbkUpload.Parameter o1, BbkUpload.Parameter o2)**

Definition at line 375 of file OfficialUploadPoster.java.

---

## Member Data Documentation

**final int data\_center.OfficialUploadPoster.ParamComparator.ASC = 1 [static]**

Definition at line 356 of file OfficialUploadPoster.java.

**final int data\_center.OfficialUploadPoster.ParamComparator.DESC = -1 [static]**

Definition at line 357 of file OfficialUploadPoster.java.

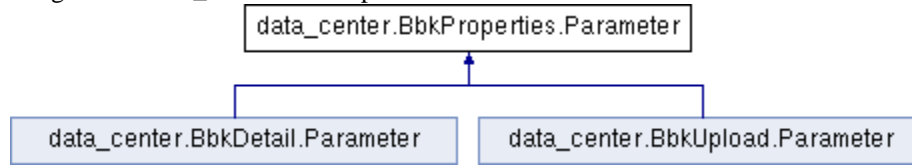
---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç±å • %å§†/SJTU-Software\_2014/src/data\_center/OfficialUploadPoster.java

## data\_center.BbkProperties.Parameter Class Reference

Inheritance diagram for data\_center.BbkProperties.Parameter:



### Public Member Functions

[Parameter](#) ()

[Parameter](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [name](#)

String [value](#)

String [units](#)

String [url](#)

String [ID](#)

String [m\\_date](#)

String [userID](#)

String [userName](#)

---

### Detailed Description

Definition at line 64 of file BbkProperties.java.

---

### Constructor & Destructor Documentation

#### data\_center.BbkProperties.Parameter.Parameter ()

Definition at line 75 of file BbkProperties.java.

#### data\_center.BbkProperties.Parameter.Parameter (ResultSet *resultSet*) throws SQLException

Definition at line 77 of file BbkProperties.java.

---

## Member Data Documentation

### **String data\_center.BbkProperties.Parameter.ID**

Definition at line 70 of file BbkProperties.java.

### **String data\_center.BbkProperties.Parameter.m\_date**

Definition at line 71 of file BbkProperties.java.

### **String data\_center.BbkProperties.Parameter.name**

Definition at line 66 of file BbkProperties.java.

### **String data\_center.BbkProperties.Parameter.units**

Definition at line 68 of file BbkProperties.java.

### **String data\_center.BbkProperties.Parameter.url**

Definition at line 69 of file BbkProperties.java.

### **String data\_center.BbkProperties.Parameter.userID**

Definition at line 72 of file BbkProperties.java.

### **String data\_center.BbkProperties.Parameter.userName**

Definition at line 73 of file BbkProperties.java.

### **String data\_center.BbkProperties.Parameter.value**

Definition at line 67 of file BbkProperties.java.

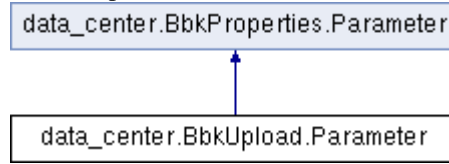
---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkProperties.java

## data\_center.BbkUpload.Parameter Class Reference

Inheritance diagram for data\_center.BbkUpload.Parameter:



### Public Member Functions

[Parameter](#) (String [name](#), String [value](#), String [units](#), String [url](#), String [ID](#), String [userName](#))

[Parameter](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [name](#)

String [value](#)

String [units](#)

String [url](#)

String [ID](#)

String [m\\_date](#)

String [userID](#)

String [userName](#)

---

### Detailed Description

Definition at line 168 of file BbkUpload.java.

---

### Constructor & Destructor Documentation

**data\_center.BbkUpload.Parameter.Parameter (String *name*, String *value*, String *units*, String *url*, String *ID*, String *userName*)**

Definition at line 170 of file BbkUpload.java.

**data\_center.BbkUpload.Parameter.Parameter (ResultSet *resultSet*) throws SQLException**

Used to fill data from database when modify uploaded bbk

Definition at line 185 of file BbkUpload.java.

---



## Member Data Documentation

**String data\_center.BbkProperties.Parameter.ID [inherited]**

Definition at line 70 of file BbkProperties.java.

**String data\_center.BbkProperties.Parameter.m\_date [inherited]**

Definition at line 71 of file BbkProperties.java.

**String data\_center.BbkProperties.Parameter.name [inherited]**

Definition at line 66 of file BbkProperties.java.

**String data\_center.BbkProperties.Parameter.units [inherited]**

Definition at line 68 of file BbkProperties.java.

**String data\_center.BbkProperties.Parameter.url [inherited]**

Definition at line 69 of file BbkProperties.java.

**String data\_center.BbkProperties.Parameter.userID [inherited]**

Definition at line 72 of file BbkProperties.java.

**String data\_center.BbkProperties.Parameter.userName [inherited]**

Definition at line 73 of file BbkProperties.java.

**String data\_center.BbkProperties.Parameter.value [inherited]**

Definition at line 67 of file BbkProperties.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-å¹/ç^±å • %å\$†/SJTU-Software\_2014/src/data\_center/BbkUpload.java

## data\_center.DBConsts.Header.Parameter Class Reference

### Static Public Attributes

```
static final String NAME = "name"
static final String VALUE = "value"
static final String UNITS = "units"
static final String URL = "url"
static final String ID = "id"
static final String M\_DATE = "m_date"
static final String USER\_ID = "user_id"
static final String USER\_NAME = "user_name"
```

---

### Detailed Description

Definition at line 120 of file DBConsts.java.

---

### Member Data Documentation

**final String data\_center.DBConsts.Header.Parameter.ID = "id" [static]**

Definition at line 126 of file DBConsts.java.

**final String data\_center.DBConsts.Header.Parameter.M\_DATE = "m\_date" [static]**

Definition at line 127 of file DBConsts.java.

**final String data\_center.DBConsts.Header.Parameter.NAME = "name" [static]**

Definition at line 122 of file DBConsts.java.

**final String data\_center.DBConsts.Header.Parameter.UNITS = "units" [static]**

Definition at line 124 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Parameter.URL = "url" [static]
```

Definition at line 125 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Parameter.USER_ID = "user_id" [static]
```

Definition at line 128 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Parameter.USER_NAME =  
"user_name" [static]
```

Definition at line 129 of file DBConsts.java.

```
final String data_center.DBConsts.Header.Parameter.VALUE = "value" [static]
```

Definition at line 123 of file DBConsts.java.

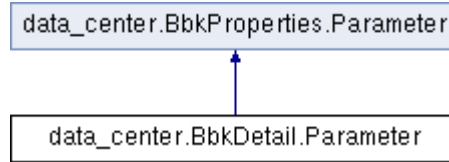
---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç±ä • %å§†/SJTU-Software\_2014/src/data\_center/DBConsts.java

## data\_center.BbkDetail.Parameter Class Reference

Inheritance diagram for data\_center.BbkDetail.Parameter:



### Public Member Functions

[Parameter](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [name](#)

String [value](#)

String [units](#)

String [url](#)

String [ID](#)

String [m\\_date](#)

String [userID](#)

String [userName](#)

---

### Detailed Description

Definition at line 64 of file BbkDetail.java.

---

### Constructor & Destructor Documentation

**data\_center.BbkDetail.Parameter.Parameter (ResultSet *resultSet*) throws SQLException**

Definition at line 66 of file BbkDetail.java.

---

### Member Data Documentation

**String data\_center.BbkProperties.Parameter.ID [inherited]**

Definition at line 70 of file BbkProperties.java.

**String data\_center.BbkProperties.Parameter.m\_date [inherited]**

Definition at line 71 of file BbkProperties.java.

**String data\_center.BbkProperties.Parameter.name [inherited]**

Definition at line 66 of file BbkProperties.java.

**String data\_center.BbkProperties.Parameter.units [inherited]**

Definition at line 68 of file BbkProperties.java.

**String data\_center.BbkProperties.Parameter.url [inherited]**

Definition at line 69 of file BbkProperties.java.

**String data\_center.BbkProperties.Parameter.userID [inherited]**

Definition at line 72 of file BbkProperties.java.

**String data\_center.BbkProperties.Parameter.userName [inherited]**

Definition at line 73 of file BbkProperties.java.

**String data\_center.BbkProperties.Parameter.value [inherited]**

Definition at line 67 of file BbkProperties.java.

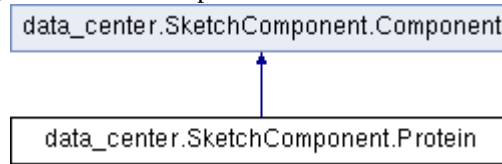
---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkDetail.java

## data\_center.SketchComponent.Protein Class Reference

Inheritance diagram for data\_center.SketchComponent.Protein:



### Public Member Functions

[Protein](#) (int theID, int [secondaryType](#), Rectangle [bounds](#), Color [color](#))

[Protein toSubclass](#) ()

Integer [getSecondaryType](#) ()

void [setSecondaryType](#) (Integer type)

Rectangle [getBounds](#) ()

void [setBounds](#) (Rectangle [bounds](#))

Color [getColor](#) ()

void [setColor](#) (Color [color](#))

void [display](#) ()

[Label toLabel](#) ()

[BioBrick toBioBrick](#) ()

[Protein toProtein](#) ()

[BackBone toBackBone](#) ()

[Relation toRelation](#) ()

[BioVector toBioVictor](#) ()

String [getString](#) ()

void [setString](#) (String str)

Font [getFont](#) ()

void [setFont](#) (Font font)

Double [getThickness](#) ()

void [setThickness](#) (double thickness)

ArrayList< Point > [getCurve](#) ()

void [setCurve](#) (ArrayList< Point > curve)

ArrayList< Integer > [getChildren](#) ()

void [setChildren](#) (ArrayList< Integer > children)

### Public Attributes

int [secondaryType](#)

Rectangle [bounds](#)

Color [color](#)

int [ID](#)

String [primaryType](#)

---

### Detailed Description

Definition at line 253 of file SketchComponent.java.

---



## Constructor & Destructor Documentation

**data\_center.SketchComponent.Protein.Protein (int *theID*, int *secondaryType*, Rectangle *bounds*, Color *color*)**

Definition at line 260 of file SketchComponent.java.

---

## Member Function Documentation

**void data\_center.SketchComponent.Protein.display ()**

Definition at line 297 of file SketchComponent.java.

**Rectangle data\_center.SketchComponent.Protein.getBounds ()**

Definition at line 282 of file SketchComponent.java.

**ArrayList<Integer> data\_center.SketchComponent.Component.getChildren () [inherited]**  
bbkChildren in backBone, the IDs

Definition at line 96 of file SketchComponent.java.

**Color data\_center.SketchComponent.Protein.getColor ()**

Definition at line 290 of file SketchComponent.java.

**ArrayList<Point> data\_center.SketchComponent.Component.getCurve () [inherited]**

Definition at line 90 of file SketchComponent.java.

**Font data\_center.SketchComponent.Component.getFont () [inherited]**

Definition at line 74 of file SketchComponent.java.

**Integer data\_center.SketchComponent.Protein.getSecondaryType ()**

Definition at line 274 of file SketchComponent.java.

**String data\_center.SketchComponent.Component.getString () [inherited]**

text for [Label](#), and bbkName for [BioBrick](#)

Definition at line 59 of file SketchComponent.java.

**Double data\_center.SketchComponent.Component.getThickness () [inherited]**

the thickness in the [Relation](#)

Definition at line 85 of file SketchComponent.java.

**void data\_center.SketchComponent.Protein.setBounds (Rectangle *bounds*)**

Definition at line 286 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setChildren (ArrayList< Integer > *children*) [inherited]**

Definition at line 99 of file SketchComponent.java.

**void data\_center.SketchComponent.Protein.setColor (Color *color*)**

Definition at line 294 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setCurve (ArrayList< Point > *curve*) [inherited]**

Definition at line 93 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setFont (Font *font*) [inherited]**

Definition at line 77 of file SketchComponent.java.

**void data\_center.SketchComponent.Protein.setSecondaryType (Integer *type*)**

Definition at line 278 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setString (String *str*) [inherited]**  
text for [Label](#), and bbkName for [BioBrick](#)

Definition at line 63 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setThickness (double *thickness*) [inherited]**

Definition at line 88 of file SketchComponent.java.

[BackBone](#) **data\_center.SketchComponent.Component.toBackBone () [inherited]**

Definition at line 39 of file SketchComponent.java.

[BioBrick](#) **data\_center.SketchComponent.Component.toBioBrick () [inherited]**

Definition at line 33 of file SketchComponent.java.

[BioVector](#) **data\_center.SketchComponent.Component.toBioVictor () [inherited]**

Definition at line 45 of file SketchComponent.java.

[Label](#) **data\_center.SketchComponent.Component.toLabel () [inherited]**

Definition at line 30 of file SketchComponent.java.

[Protein](#) **data\_center.SketchComponent.Component.toProtein () [inherited]**

Definition at line 36 of file SketchComponent.java.

[Relation](#) **data\_center.SketchComponent.Component.toRelation () [inherited]**

Definition at line 42 of file SketchComponent.java.

[Protein](#) **data\_center.SketchComponent.Protein.toSubclass ()**

Definition at line 270 of file SketchComponent.java.

---

## Member Data Documentation

**Rectangle data\_center.SketchComponent.Protein.bounds**

Definition at line 256 of file SketchComponent.java.

**Color data\_center.SketchComponent.Protein.color**

Definition at line 257 of file SketchComponent.java.

**int data\_center.SketchComponent.Component.ID [inherited]**

Definition at line 16 of file SketchComponent.java.

**String data\_center.SketchComponent.Component.primaryType [inherited]**

Definition at line 17 of file SketchComponent.java.

**int data\_center.SketchComponent.Protein.secondaryType**

Definition at line 255 of file SketchComponent.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/SketchComponent.java

## data\_center.BbkType.Sketch.Protein Class Reference

### Static Public Attributes

static final int [FACTOR](#) = 0  
static final int [RECEPTER](#) = 1  
static final int [COMBINED](#) = 3

---

### Detailed Description

Definition at line 63 of file BbkType.java.

---

### Member Data Documentation

**final int data\_center.BbkType.Sketch.Protein.COMBINED = 3 [static]**

Definition at line 67 of file BbkType.java.

**final int data\_center.BbkType.Sketch.Protein.FACTOR = 0 [static]**

Definition at line 65 of file BbkType.java.

**final int data\_center.BbkType.Sketch.Protein.RECEPTER = 1 [static]**

Definition at line 66 of file BbkType.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹¸ç^±â • %å§†/SJTU-Software\_2014/src/data\_center/BbkType.java

## data\_center.BbkOutline.Rating Class Reference

### Public Member Functions

[Rating](#) (ResultSet resultSet) throws SQLException  
void [display](#) ()

### Public Attributes

String [rating](#)  
String [status](#)  
String [quality](#)  
String [feedbacks](#)  
String [publication](#)  
String [delete\\_this\\_part](#)  
String [tot\\_confirmed](#)  
String [detail\\_not\\_confirmed](#)  
String [average\\_stars](#)  
String [tot\\_commets](#)  
String [google\\_items](#)  
String [first\\_url](#)  
String [documentation](#)  
String [used\\_times](#)

---

### Detailed Description

The rating by EasyBbk, evaluation criteria from both official web page and criteria by SJTU-software.

Definition at line 122 of file BbkOutline.java.

---

### Constructor & Destructor Documentation

**data\_center.BbkOutline.Rating.Rating (ResultSet *resultSet*) throws SQLException**

Definition at line 140 of file BbkOutline.java.

---

### Member Function Documentation

**void data\_center.BbkOutline.Rating.display ()**

Print main attributes in cmd for testing.



Definition at line 160 of file BbkOutline.java.

---

## **Member Data Documentation**

### **String data\_center.BbkOutline.Rating.average\_stars**

Definition at line 133 of file BbkOutline.java.

### **String data\_center.BbkOutline.Rating.delete\_this\_part**

Definition at line 130 of file BbkOutline.java.

### **String data\_center.BbkOutline.Rating.detail\_not\_confirmed**

Definition at line 132 of file BbkOutline.java.

### **String data\_center.BbkOutline.Rating.documentation**

Definition at line 137 of file BbkOutline.java.

### **String data\_center.BbkOutline.Rating.feedbacks**

Definition at line 127 of file BbkOutline.java.

### **String data\_center.BbkOutline.Rating.first\_url**

Definition at line 136 of file BbkOutline.java.

**String data\_center.BbkOutline.Rating.google\_items**

Definition at line 135 of file BbkOutline.java.

**String data\_center.BbkOutline.Rating.publication**

Definition at line 128 of file BbkOutline.java.

**String data\_center.BbkOutline.Rating.quality**

Definition at line 126 of file BbkOutline.java.

**String data\_center.BbkOutline.Rating.rating**

Definition at line 124 of file BbkOutline.java.

**String data\_center.BbkOutline.Rating.status**

Definition at line 125 of file BbkOutline.java.

**String data\_center.BbkOutline.Rating.tot\_commets**

Definition at line 134 of file BbkOutline.java.

**String data\_center.BbkOutline.Rating.tot\_confirmed**

Definition at line 131 of file BbkOutline.java.

**String data\_center.BbkOutline.Rating.used\_times**

Definition at line 138 of file BbkOutline.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkOutline.java

## data\_center.DBConsts.Rating Class Reference

### Static Public Attributes

static final double [STATUS\\_DEFAULT\\_WEIGHT](#) = 0.406  
static final double [QUALITY\\_DEFAULT\\_WEIGHT](#) = 0.233  
static final double [FEEDBACKS\\_DEFAULT\\_WEIGHT](#) = 0.244  
static final double [PUBLICATION\\_DEFAULT\\_WEIGHT](#) = 0.117  
static final double [STATUS\\_TOTAL\\_POINTS](#) = 0.406  
static final double [QUALITY\\_TOTAL\\_POINTS](#) = 0.233  
static final double [FEEDBACKS\\_TOTAL\\_POINTS](#) = 0.244  
static final double [PUBLICATION\\_TOTAL\\_POINTS](#) = 0.117  
static final double [TOTAL\\_POINTS](#) = 1

---

### Detailed Description

Store the total score and default weight set in database

Definition at line 32 of file DBConsts.java.

---

### Member Data Documentation

**final double data\_center.DBConsts.Rating.FEEDBACKS\_DEFAULT\_WEIGHT = 0.244 [static]**

Definition at line 37 of file DBConsts.java.

**final double data\_center.DBConsts.Rating.FEEDBACKS\_TOTAL\_POINTS = 0.244 [static]**

Definition at line 43 of file DBConsts.java.

**final double data\_center.DBConsts.Rating.PUBLICATION\_DEFAULT\_WEIGHT = 0.117 [static]**

Definition at line 38 of file DBConsts.java.

```
final double data_center.DBConsts.Rating.PUBLICATION_TOTAL_POINTS =  
0.117 [static]
```

Definition at line 44 of file DBConsts.java.

```
final double data_center.DBConsts.Rating.QUALITY_DEFAULT_WEIGHT = 0.233 [static]
```

Definition at line 36 of file DBConsts.java.

```
final double data_center.DBConsts.Rating.QUALITY_TOTAL_POINTS = 0.233 [static]
```

Definition at line 42 of file DBConsts.java.

```
final double data_center.DBConsts.Rating.STATUS_DEFAULT_WEIGHT = 0.406 [static]
```

Definition at line 35 of file DBConsts.java.

```
final double data_center.DBConsts.Rating.STATUS_TOTAL_POINTS = 0.406 [static]
```

Definition at line 41 of file DBConsts.java.

```
final double data_center.DBConsts.Rating.TOTAL_POINTS = 1 [static]
```

Definition at line 46 of file DBConsts.java.

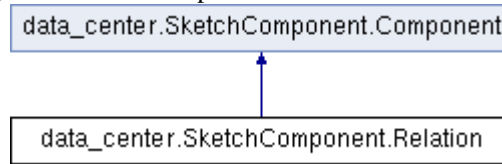
---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/DBConsts.java

## data\_center.SketchComponent.Relation Class Reference

Inheritance diagram for data\_center.SketchComponent.Relation:



### Public Member Functions

[Relation](#) (int theID, int [secondaryType](#), Rectangle [bounds](#), ArrayList< Point > list, Color [color](#), double [thickness](#))

[Relation toSubclass](#) ()

Integer [getSecondaryType](#) ()

void [setSecondaryType](#) (Integer type)

Rectangle [getBounds](#) ()

void [setBounds](#) (Rectangle [bounds](#))

ArrayList< Point > [getCurve](#) ()

void [setCurve](#) (ArrayList< Point > curve)

Color [getColor](#) ()

void [setColor](#) (Color [color](#))

Double [getThickness](#) ()

void [setThickness](#) (double [thickness](#))

void [display](#) ()

[Label toLabel](#) ()

[BioBrick toBioBrick](#) ()

[Protein toProtein](#) ()

[BackBone toBackBone](#) ()

[Relation toRelation](#) ()

[BioVector toBioVictor](#) ()

String [getString](#) ()

void [setString](#) (String str)

Font [getFont](#) ()

void [setFont](#) (Font font)

ArrayList< Integer > [getChildren](#) ()

void [setChildren](#) (ArrayList< Integer > children)

### Public Attributes

int [secondaryType](#)

Rectangle [bounds](#)

ArrayList< Point > [posList](#)

Color [color](#)

double [thickness](#)

int [ID](#)

String [primaryType](#)

---

### Detailed Description

Definition at line 356 of file SketchComponent.java.

---

## Constructor & Destructor Documentation

**data\_center.SketchComponent.Relation.Relation (int *theID*, int *secondaryType*, Rectangle *bounds*, ArrayList< Point > *list*, Color *color*, double *thickness*)**

Definition at line 364 of file SketchComponent.java.

---

## Member Function Documentation

**void data\_center.SketchComponent.Relation.display ()**

Definition at line 419 of file SketchComponent.java.

**Rectangle data\_center.SketchComponent.Relation.getBounds ()**

Definition at line 388 of file SketchComponent.java.

**ArrayList<Integer> data\_center.SketchComponent.Component.getChildren () [inherited]**  
bbkChildren in backBone, the IDs

Definition at line 96 of file SketchComponent.java.

**Color data\_center.SketchComponent.Relation.getColor ()**

Definition at line 404 of file SketchComponent.java.

**ArrayList<Point> data\_center.SketchComponent.Relation.getCurve ()**



Definition at line 396 of file SketchComponent.java.

**Font data\_center.SketchComponent.Component.getFont () [inherited]**

Definition at line 74 of file SketchComponent.java.

**Integer data\_center.SketchComponent.Relation.getSecondaryType ()**

Definition at line 380 of file SketchComponent.java.

**String data\_center.SketchComponent.Component.getString () [inherited]**

text for [Label](#), and bbkName for [BioBrick](#)

Definition at line 59 of file SketchComponent.java.

**Double data\_center.SketchComponent.Relation.getThickness ()**

Definition at line 412 of file SketchComponent.java.

**void data\_center.SketchComponent.Relation.setBounds (Rectangle *bounds*)**

Definition at line 392 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setChildren (ArrayList< Integer > *children*) [inherited]**

Definition at line 99 of file SketchComponent.java.

**void data\_center.SketchComponent.Relation.setColor (Color *color*)**

Definition at line 408 of file SketchComponent.java.

**void data\_center.SketchComponent.Relation.setCurve (ArrayList< Point > *curve*)**

Definition at line 400 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setFont (Font *font*)<sub>[inherited]</sub>**

Definition at line 77 of file SketchComponent.java.

**void data\_center.SketchComponent.Relation.setSecondaryType (Integer *type*)**

Definition at line 384 of file SketchComponent.java.

**void data\_center.SketchComponent.Component.setString (String *str*)<sub>[inherited]</sub>**

text for [Label](#), and bbkName for [BioBrick](#)

Definition at line 63 of file SketchComponent.java.

**void data\_center.SketchComponent.Relation.setThickness (double *thickness*)**

Definition at line 416 of file SketchComponent.java.

[BackBone](#) **data\_center.SketchComponent.Component.toBackBone () [inherited]**

Definition at line 39 of file SketchComponent.java.

[BioBrick](#) **data\_center.SketchComponent.Component.toBioBrick () [inherited]**

Definition at line 33 of file SketchComponent.java.

[BioVector](#) **data\_center.SketchComponent.Component.toBioVictor () [inherited]**

Definition at line 45 of file SketchComponent.java.

[Label](#) **data\_center.SketchComponent.Component.toLabel () [inherited]**

Definition at line 30 of file SketchComponent.java.

[Protein](#) **data\_center.SketchComponent.Component.toProtein () [inherited]**

Definition at line 36 of file SketchComponent.java.

[Relation](#) **data\_center.SketchComponent.Component.toRelation () [inherited]**

Definition at line 42 of file SketchComponent.java.

## **Relation data\_center.SketchComponent.Relation.toSubclass ()**

Definition at line 376 of file SketchComponent.java.

---

## **Member Data Documentation**

### **Rectangle data\_center.SketchComponent.Relation.bounds**

Definition at line 359 of file SketchComponent.java.

### **Color data\_center.SketchComponent.Relation.color**

Definition at line 361 of file SketchComponent.java.

### **int data\_center.SketchComponent.Component.ID [inherited]**

Definition at line 16 of file SketchComponent.java.

### **ArrayList<Point> data\_center.SketchComponent.Relation.posList**

Definition at line 360 of file SketchComponent.java.

### **String data\_center.SketchComponent.Component.primaryType [inherited]**

Definition at line 17 of file SketchComponent.java.

**int data\_center.SketchComponent.Relation.secondaryType**

Definition at line 358 of file SketchComponent.java.

**double data\_center.SketchComponent.Relation.thickness**

Definition at line 362 of file SketchComponent.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/SketchComponent.java

## data\_center.BbkType.Sketch.Relation Class Reference

### Static Public Attributes

static final int [PROMOTE](#) = 1  
static final int [SUPPRESS](#) = 2  
static final int [OTHER](#) = 0

---

### Detailed Description

Definition at line 76 of file BbkType.java.

---

### Member Data Documentation

**final int data\_center.BbkType.Sketch.Relation.OTHER = 0 [static]**

Definition at line 80 of file BbkType.java.

**final int data\_center.BbkType.Sketch.Relation.PROMOTE = 1 [static]**

Definition at line 78 of file BbkType.java.

**final int data\_center.BbkType.Sketch.Relation.SUPPRESS = 2 [static]**

Definition at line 79 of file BbkType.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹¸ç±â%â§†/SJTU-Software\_2014/src/data\_center/BbkType.java

## data\_center.SearchCenter Class Reference

### Public Member Functions

[SearchCenter](#) ()  
boolean [canRollBack](#) ()  
boolean [canGoForward](#) ()  
SearchResultList [getCurrentRawSearchResultList](#) ()  
SearchResultList [search](#) (String keyword)  
SearchResultList [blast](#) (String input, int mode)  
[BbkDetail](#) [getDetail](#) (String bbkName)  
SearchResultList [rollBack](#) ()  
SearchResultList [goForward](#) ()

### Public Attributes

[SearchHistory](#) [historyList](#)

---

### Detailed Description

Provide functions about searching database by SJTU-software. Can search by keyword, blast by sequence, get detail by name.

Definition at line 5 of file SearchCenter.java.

---

### Constructor & Destructor Documentation

#### data\_center.SearchCenter.SearchCenter ()

Definition at line 9 of file SearchCenter.java.

---

### Member Function Documentation

#### SearchResultList data\_center.SearchCenter.blast (String *input*, int *mode*)

Definition at line 38 of file SearchCenter.java.

**boolean data\_center.SearchCenter.canGoForward ()**

Definition at line 20 of file SearchCenter.java.

**boolean data\_center.SearchCenter.canRollBack ()**

Definition at line 15 of file SearchCenter.java.

**SearchResultList data\_center.SearchCenter.getCurrentRawSearchResultList ()**

Definition at line 26 of file SearchCenter.java.

**[BbkDetail](#) data\_center.SearchCenter.getDetail (String *bbkName*)**

Definition at line 45 of file SearchCenter.java.

**SearchResultList data\_center.SearchCenter.goForward ()**

Definition at line 55 of file SearchCenter.java.

**SearchResultList data\_center.SearchCenter.rollback ()**

Definition at line 50 of file SearchCenter.java.



## SearchResultList data\_center.SearchCenter.search (String *keyword*)

Definition at line 31 of file SearchCenter.java.

---

## Member Data Documentation

### [SearchHistory](#) data\_center.SearchCenter.historyList

Definition at line 7 of file SearchCenter.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/SearchCenter.java

## data\_center.SearchHistory Class Reference

### Public Member Functions

void [putInItem](#) (SearchResultList item)  
int [getCurrentItemNo](#) ()  
SearchResultList [getCurrentItem](#) ()  
boolean [canRollBack](#) ()  
boolean [canGoForward](#) ()  
SearchResultList [rollBack](#) ()  
SearchResultList [goForward](#) ()  
void [clear](#) ()

---

### Detailed Description

The class implements a history list contains roll back and go forward function. Different from the [OperationHistory](#), the [SearchHistory](#) aims the pointer at the data, not the nick between data, like [H H H C F] (history, current, future)

Definition at line 8 of file SearchHistory.java.

---

### Member Function Documentation

#### boolean data\_center.SearchHistory.canGoForward ()

Definition at line 43 of file SearchHistory.java.

#### boolean data\_center.SearchHistory.canRollBack ()

Definition at line 38 of file SearchHistory.java.

#### void data\_center.SearchHistory.clear ()

Definition at line 78 of file SearchHistory.java.

### **SearchResultList data\_center.SearchHistory.getCurrentItem ()**

Definition at line 30 of file SearchHistory.java.

### **int data\_center.SearchHistory.getCurrentItemNo ()**

Definition at line 25 of file SearchHistory.java.

### **SearchResultList data\_center.SearchHistory.goForward ()**

Definition at line 63 of file SearchHistory.java.

### **void data\_center.SearchHistory.putInItem (SearchResultList *item*)**

Keeps the previous items and flush the following items.

Definition at line 14 of file SearchHistory.java.

### **SearchResultList data\_center.SearchHistory.rollBack ()**

Definition at line 48 of file SearchHistory.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/SearchHistory.java

## data\_center.BbkType.Sketch Class Reference

### Classes

class [BackBone](#)  
class [BioBrick](#)  
class [BioVector](#)  
class [Protein](#)  
class [Relation](#)

### Static Public Attributes

static final int [LABEL](#) = 1  
static final int [BIO\\_BRICK](#) = 2  
static final int [PROTEIN](#) = 3  
static final int [BACKBONE](#) = 4  
static final int [RELATION](#) = 5  
static final int [VECTOR](#) = 6

---

### Detailed Description

The types defined in the sketch function in EasyBbk.

Definition at line 43 of file BbkType.java.

---

### Member Data Documentation

**final int data\_center.BbkType.Sketch.BACKBONE = 4 [static]**

Definition at line 48 of file BbkType.java.

**final int data\_center.BbkType.Sketch.BIO\_BRICK = 2 [static]**

Definition at line 46 of file BbkType.java.

**final int data\_center.BbkType.Sketch.LABEL = 1 [static]**

Definition at line 45 of file BbkType.java.

```
final int data_center.BbkType.Sketch.PROTEIN = 3 [static]
```

Definition at line 47 of file BbkType.java.

```
final int data_center.BbkType.Sketch.RELATION = 5 [static]
```

Definition at line 49 of file BbkType.java.

```
final int data_center.BbkType.Sketch.VECTOR = 6 [static]
```

Definition at line 50 of file BbkType.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkType.java

## data\_center.SketchCenter Class Reference

### Public Member Functions

[SketchProject](#) [switchCurrentProjectTo](#) (String projectName)  
[SketchProject](#) [newProject](#) ()  
void [closeProject](#) (String projectName)  
void [saveProject](#) (String filePath)  
[SketchProject](#) [loadProject](#) (String filePath)  
String[] [getAllProjectNames](#) ()  
[BbkOutline](#) [assignBbkOutlineToBioBrick](#) (String bbkName, [BioBrick](#) biobrick)  
[BbkUpload](#) [generateBbkUploadFromBackBone](#) ([BackBone](#) backbone, boolean findTwins)

### Public Attributes

[SketchProject](#) [currentProject](#) = null  
ArrayList< [SketchProject](#) > [projectList](#) = new ArrayList<[SketchProject](#)>()

---

### Detailed Description

This class contains all of the operations of the sketch project. Further operation inside a project can be accessed by the reference of a [SketchProject](#) instance. Please note that the new, save, load all aim at the current project, which need no specification of the project name of its reference. To operate on another project? you may use the [switchCurrentProjectTo\(\)](#) function.

Definition at line 13 of file SketchCenter.java.

---

### Member Function Documentation

[BbkOutline](#) [data\\_center.SketchCenter.assignBbkOutlineToBioBrick](#) (String *bbkName*, [BioBrick](#) *biobrick*)

Assign a [BbkOutline](#) to a [SketchComponent.BioBrick](#), specified by part\_name. If the database doesn't have such name, a null will be returned.

Definition at line 80 of file SketchCenter.java.

**void [data\\_center.SketchCenter.closeProject](#) (String *projectName*)**

Close a project which can be either current project or not. Pass a null to represent current project.

Definition at line 40 of file SketchCenter.java.

**[BbkUpload](#) data\_center.SketchCenter.generateBbkUploadFromBackBone ([BackBone backbone](#), boolean *findTwins*)**

Upload the newly designed biobrick to the database by SJTU-software! This function generates a [BbkUpload](#) instance to start this process. This function is aimed to simplify the upload process and as the interaction between the 4 functions of the software.

Definition at line 90 of file SketchCenter.java.

**String [] data\_center.SketchCenter.getAllProjectNames ()**

Definition at line 70 of file SketchCenter.java.

**[SketchProject](#) data\_center.SketchCenter.loadProject (String *filePath*)**

Load a project that will OVERWRITE CURRENT project

Definition at line 64 of file SketchCenter.java.

**[SketchProject](#) data\_center.SketchCenter.newProject ()**

Definition at line 31 of file SketchCenter.java.

**void data\_center.SketchCenter.saveProject (String *filePath*)**

Save the CURRENT project

Definition at line 56 of file SketchCenter.java.

**[SketchProject](#) data\_center.SketchCenter.switchCurrentProjectTo (String *projectName*)**

Switch current project to a new one to execute new, save, load operation on it.

Definition at line 20 of file SketchCenter.java.

## Member Data Documentation

[SketchProject](#) data\_center.SketchCenter.currentProject = null

Definition at line 15 of file SketchCenter.java.

ArrayList<[SketchProject](#)> data\_center.SketchCenter.projectList = new  
ArrayList<[SketchProject](#)>()

Definition at line 16 of file SketchCenter.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/SketchCenter.java



## data\_center.SketchComponent Class Reference

### Classes

class [BackBone](#)  
class [BioBrick](#)  
class [BioVector](#)  
class [Component](#)  
class [Label](#)  
class [Protein](#)  
class [Relation](#)

---

### Detailed Description

The class that contains the 6 sketch components and their subclass.

Definition at line 10 of file SketchComponent.java.

---

The documentation for this class was generated from the following file:

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/SketchComponent.java

## data\_center.SketchOperation Class Reference

### Public Member Functions

[SketchOperation](#) (int [ID](#), int opeType, int attType, Object pre, Object fol)

[SketchOperation](#) [generateReversedOp](#) ()

void [display](#) ()

### Public Attributes

int [ID](#)

int [operationType](#)

int [attributeType](#)

Object [previous](#) = null

Object [following](#) = null

### Static Public Attributes

static final int [ADD](#) = 1

static final int [REMOVE](#) = 2

static final int [MODIFY](#) = 3

static final int [TYPE\\_COMPONENT](#) = 0

static final int [TYPE\\_STRING](#) = 1

static final int [TYPE\\_BOUNDS](#) = 2

static final int [TYPE\\_FONT](#) = 3

static final int [TYPE\\_COLOR](#) = 4

static final int [TYPE\\_THICKNESS](#) = 5

static final int [TYPE\\_NULL](#) = -1

---

### Detailed Description

Definition at line 3 of file SketchOperation.java.

---

### Constructor & Destructor Documentation

**data\_center.SketchOperation.SketchOperation** (int *ID*, int *opeType*, int *attType*, Object *pre*, Object *fol*)

Definition at line 27 of file SketchOperation.java.

---

### Member Function Documentation

**void data\_center.SketchOperation.display** ()

Definition at line 50 of file SketchOperation.java.

[SketchOperation](#) **data\_center.SketchOperation.generateReversedOp ()**

Definition at line 36 of file SketchOperation.java.

---

## Member Data Documentation

**final int data\_center.SketchOperation.ADD = 1 [static]**

Add component, not bbkName or sth like that

Definition at line 6 of file SketchOperation.java.

**int data\_center.SketchOperation.attributeType**

Definition at line 23 of file SketchOperation.java.

**Object data\_center.SketchOperation.following = null**

Definition at line 25 of file SketchOperation.java.

**int data\_center.SketchOperation.ID**

Definition at line 21 of file SketchOperation.java.

**final int data\_center.SketchOperation.MODIFY = 3 [static]**

Definition at line 9 of file SketchOperation.java.

**int data\_center.SketchOperation.operationType**

Definition at line 22 of file SketchOperation.java.

**Object data\_center.SketchOperation.previous = null**

Definition at line 24 of file SketchOperation.java.

**final int data\_center.SketchOperation.REMOVE = 2 [static]**

Remove component, not bbkName or sth like that

Definition at line 8 of file SketchOperation.java.

**final int data\_center.SketchOperation.TYPE\_BOUNDS = 2 [static]**

Definition at line 14 of file SketchOperation.java.

**final int data\_center.SketchOperation.TYPE\_COLOR = 4 [static]**

Definition at line 16 of file SketchOperation.java.

**final int data\_center.SketchOperation.TYPE\_COMPONENT = 0 [static]**

Definition at line 12 of file SketchOperation.java.

```
final int data_center.SketchOperation.TYPE_FONT = 3 [static]
```

Definition at line 15 of file SketchOperation.java.

```
final int data_center.SketchOperation.TYPE_NULL = -1 [static]
```

Definition at line 18 of file SketchOperation.java.

```
final int data_center.SketchOperation.TYPE_STRING = 1 [static]
```

Definition at line 13 of file SketchOperation.java.

```
final int data_center.SketchOperation.TYPE_THICKNESS = 5 [static]
```

Definition at line 17 of file SketchOperation.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç±å • %å§†/SJTU-Software\_2014/src/data\_center/SketchOperation.java

## data\_center.SketchProject Class Reference

### Public Member Functions

[SketchProject](#) (String [name](#))  
Component [findComponentByID](#) (int ID)  
[BackBone](#) [findBackBoneInBackBoneListByID](#) (int ID)  
void [addComponent](#) (Component component)  
void [delComponent](#) (Component component)  
void [modifyComponent](#) (int theID, int attributeType, Object folAttribute)  
void [onAbsorb](#) (int backBoneID, int bbkID, int index)  
void [onDesorb](#) (int backBoneID, int bbkID)  
boolean [canCtrlZ](#) ()  
boolean [canCtrlY](#) ()  
[SketchOperation](#) [ctrlZ](#) ()  
[SketchOperation](#) [ctrlY](#) ()  
void [displayComponents](#) ()  
void [displayOperationHistory](#) ()  
void [saveIntoFile](#) ()  
void [saveIntoFile](#) (String [filePath](#))  
void [loadFromFile](#) (String [filePath](#))

### Public Attributes

String [name](#)  
String [filePath](#)  
ArrayList< Component > [componentList](#) = new ArrayList<Component>()  
ArrayList< [BackBone](#) > [backBoneList](#) = new ArrayList<[BackBone](#)>()  
[OperationHistory](#) [operationHistory](#) = new [OperationHistory](#)()  
boolean [modified](#) = false

---

### Detailed Description

This class provides project operations include add, remove, modify components, ctrlZ, ctrlY function and save & load.

Definition at line 33 of file SketchProject.java.

---

### Constructor & Destructor Documentation

**data\_center.SketchProject.SketchProject (String *name*)**

Definition at line 46 of file SketchProject.java.

---

## Member Function Documentation

### **void data\_center.SketchProject.addComponent (Component *component*)**

Registration function, receive the user operation and remember it in the backstage.

Definition at line 72 of file SketchProject.java.

### **boolean data\_center.SketchProject.canCtrlY ()**

Definition at line 158 of file SketchProject.java.

### **boolean data\_center.SketchProject.canCtrlZ ()**

Definition at line 153 of file SketchProject.java.

### **[SketchOperation](#) data\_center.SketchProject.ctrlY ()**

Guidance function, guide the GUI the operation from the history list. No registration is needed since the operation is not read from the user.

Definition at line 179 of file SketchProject.java.

### **[SketchOperation](#) data\_center.SketchProject.ctrlZ ()**

Guidance function, guide the GUI the operation from the history list. No registration is needed since the operation is not read from the user.

Definition at line 165 of file SketchProject.java.

### **void data\_center.SketchProject.delComponent (Component *component*)**

Registration function, receive the user operation and remember it in the backstage.

Definition at line 86 of file SketchProject.java.

**void data\_center.SketchProject.displayComponents ()**

Definition at line 190 of file SketchProject.java.

**void data\_center.SketchProject.displayOperationHistory ()**

Definition at line 196 of file SketchProject.java.

[BackBone](#) **data\_center.SketchProject.findBackBoneInBackBoneListByID (int *ID*)**

Definition at line 61 of file SketchProject.java.

**Component data\_center.SketchProject.findComponentByID (int *ID*)**

Definition at line 52 of file SketchProject.java.

**void data\_center.SketchProject.loadFromFile (String *filePath*)**

Load the project graph from XML file, note that the project.name will be specified after the file name.

Definition at line 343 of file SketchProject.java.

**void data\_center.SketchProject.modifyComponent (int *theID*, int *attributeType*, Object *folAttribute*)**

Registration function, receive the user operation and remember it in the backstage. The attributeType should be picked from Operation.TYPE\_XXX. The folAttribute is the attribute changed into, such as Point, Color

Definition at line 101 of file SketchProject.java.



**void data\_center.SketchProject.onAbsorb (int *backBoneID*, int *bbkID*, int *index*)**

Registration function, receive the user operation and remember it in the backstage.

Definition at line 130 of file SketchProject.java.

**void data\_center.SketchProject.onDesorb (int *backBoneID*, int *bbkID*)**

Registration function, receive the user operation and remember it in the backstage.

Definition at line 141 of file SketchProject.java.

**void data\_center.SketchProject.saveIntoFile ()**

Different from the overridden version in that this function is used to save into the file path already specified, like "Save", not "Save As".

Definition at line 298 of file SketchProject.java.

**void data\_center.SketchProject.saveIntoFile (String *filePath*)**

Save the project graph into XML file, note that the project.name will be specified after the file name. This function is used as the "Save As" function, if path already specified (namely already saved once), you may call the [saveIntoFile\(\)](#), the function with no parameter to save again.

Definition at line 307 of file SketchProject.java.

---

## Member Data Documentation

**ArrayList<[BackBone](#)> data\_center.SketchProject.backBoneList = new  
ArrayList<[BackBone](#)>()**

Definition at line 40 of file SketchProject.java.

**ArrayList<Component> data\_center.SketchProject.componentList = new  
ArrayList<Component>()**

Definition at line 39 of file SketchProject.java.

**String data\_center.SketchProject.filePath**

Definition at line 37 of file SketchProject.java.

**boolean data\_center.SketchProject.modified = false**

Definition at line 43 of file SketchProject.java.

**String data\_center.SketchProject.name**

Definition at line 36 of file SketchProject.java.

**[OperationHistory](#) data\_center.SketchProject.operationHistory = new [OperationHistory](#)()**

Definition at line 41 of file SketchProject.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç±â • %å§†/SJTU-Software\_2014/src/data\_center/SketchProject.java

## data\_center.BbkUpload.SpecifiedSubpart Class Reference

Inheritance diagram for data\_center.BbkUpload.SpecifiedSubpart:



### Public Member Functions

[SpecifiedSubpart](#) ([BbkDetail](#) bbkDetail)

[SpecifiedSubpart](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [ID](#)

String [name](#)

String [shortDesc](#)

String [type](#)

String [nickname](#)

---

### Detailed Description

Definition at line 205 of file BbkUpload.java.

---

### Constructor & Destructor Documentation

**data\_center.BbkUpload.SpecifiedSubpart.SpecifiedSubpart** ([BbkDetail](#) *bbkDetail*)

Data collected from main

Definition at line 208 of file BbkUpload.java.

**data\_center.BbkUpload.SpecifiedSubpart.SpecifiedSubpart** (ResultSet *resultSet*) throws SQLException

Definition at line 217 of file BbkUpload.java.

---

## Member Data Documentation

**String data\_center.BbkProperties.SpecifiedSubpart.ID** [inherited]

Definition at line 92 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubpart.name** [inherited]

Definition at line 93 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubpart.nickname** [inherited]

Definition at line 96 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubpart.shortDesc** [inherited]

Definition at line 94 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubpart.type** [inherited]

Definition at line 95 of file BbkProperties.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkUpload.java

## data\_center.BbkDetail.SpecifiedSubpart Class Reference

Inheritance diagram for data\_center.BbkDetail.SpecifiedSubpart:



### Public Member Functions

[SpecifiedSubpart](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [ID](#)

String [name](#)

String [shortDesc](#)

String [type](#)

String [nickname](#)

---

### Detailed Description

Definition at line 70 of file BbkDetail.java.

---

### Constructor & Destructor Documentation

**data\_center.BbkDetail.SpecifiedSubpart.SpecifiedSubpart (ResultSet *resultSet*) throws SQLException**

Definition at line 72 of file BbkDetail.java.

---

### Member Data Documentation

**String data\_center.BbkProperties.SpecifiedSubpart.ID [inherited]**

Definition at line 92 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubpart.name [inherited]**

Definition at line 93 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubpart.nickname [inherited]**

Definition at line 96 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubpart.shortDesc [inherited]**

Definition at line 94 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubpart.type [inherited]**

Definition at line 95 of file BbkProperties.java.

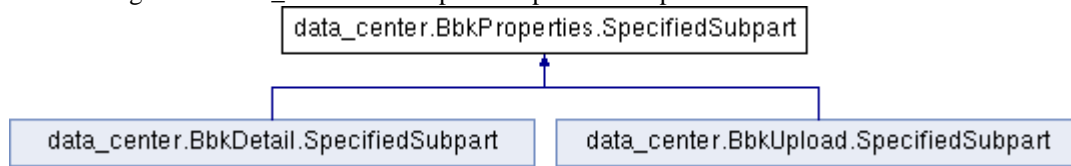
---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkDetail.java

## data\_center.BbkProperties.SpecifiedSubpart Class Reference

Inheritance diagram for data\_center.BbkProperties.SpecifiedSubpart:



### Public Member Functions

[SpecifiedSubpart](#) ()

[SpecifiedSubpart](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [ID](#)

String [name](#)

String [shortDesc](#)

String [type](#)

String [nickname](#)

---

### Detailed Description

Definition at line 90 of file BbkProperties.java.

---

### Constructor & Destructor Documentation

#### data\_center.BbkProperties.SpecifiedSubpart.SpecifiedSubpart ()

Definition at line 98 of file BbkProperties.java.

#### data\_center.BbkProperties.SpecifiedSubpart.SpecifiedSubpart (ResultSet *resultSet*) throws SQLException

Definition at line 100 of file BbkProperties.java.

---

## Member Data Documentation

### String data\_center.BbkProperties.SpecifiedSubpart.ID

Definition at line 92 of file BbkProperties.java.

### String data\_center.BbkProperties.SpecifiedSubpart.name

Definition at line 93 of file BbkProperties.java.

### String data\_center.BbkProperties.SpecifiedSubpart.nickname

Definition at line 96 of file BbkProperties.java.

### String data\_center.BbkProperties.SpecifiedSubpart.shortDesc

Definition at line 94 of file BbkProperties.java.

### String data\_center.BbkProperties.SpecifiedSubpart.type

Definition at line 95 of file BbkProperties.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å\$†/SJTU-Software\_2014/src/data\_center/BbkProperties.java



## data\_center.BbkDetail.SpecifiedSubscar Class Reference

Inheritance diagram for data\_center.BbkDetail.SpecifiedSubscar:



### Public Member Functions

[SpecifiedSubscar](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [ID](#)

String [standard](#)

String [type](#)

String [name](#)

String [nickname](#)

String [comments](#)

String [sequence](#)

---

### Detailed Description

Definition at line 76 of file BbkDetail.java.

---

### Constructor & Destructor Documentation

**data\_center.BbkDetail.SpecifiedSubscar.SpecifiedSubscar (ResultSet *resultSet*) throws SQLException**

Definition at line 78 of file BbkDetail.java.

---

### Member Data Documentation

**String data\_center.BbkProperties.SpecifiedSubscar.comments [inherited]**

Definition at line 117 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubscar.ID [inherited]**

Definition at line 112 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubscar.name [inherited]**

Definition at line 115 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubscar.nickname [inherited]**

Definition at line 116 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubscar.sequence [inherited]**

Definition at line 118 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubscar.standard [inherited]**

Definition at line 113 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubscar.type [inherited]**

Definition at line 114 of file BbkProperties.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkDetail.java

## data\_center.BbkUpload.SpecifiedSubscar Class Reference

Inheritance diagram for data\_center.BbkUpload.SpecifiedSubscar:



### Public Member Functions

[SpecifiedSubscar](#) ()

[SpecifiedSubscar](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [ID](#)

String [standard](#)

String [type](#)

String [name](#)

String [nickname](#)

String [comments](#)

String [sequence](#)

---

### Detailed Description

Definition at line 221 of file BbkUpload.java.

---

### Constructor & Destructor Documentation

#### data\_center.BbkUpload.SpecifiedSubscar.SpecifiedSubscar ()

Default subscar

Definition at line 224 of file BbkUpload.java.

#### data\_center.BbkUpload.SpecifiedSubscar.SpecifiedSubscar (ResultSet *resultSet*) throws SQLException

Used to create a specified subscar instance. Can also fill data from database when modify uploaded bbk.

Definition at line 237 of file BbkUpload.java.

---

## Member Data Documentation

**String data\_center.BbkProperties.SpecifiedSubscar.comments [inherited]**

Definition at line 117 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubscar.ID [inherited]**

Definition at line 112 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubscar.name [inherited]**

Definition at line 115 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubscar.nickname [inherited]**

Definition at line 116 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubscar.sequence [inherited]**

Definition at line 118 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubscar.standard [inherited]**

Definition at line 113 of file BbkProperties.java.

**String data\_center.BbkProperties.SpecifiedSubscar.type [inherited]**

Definition at line 114 of file BbkProperties.java.

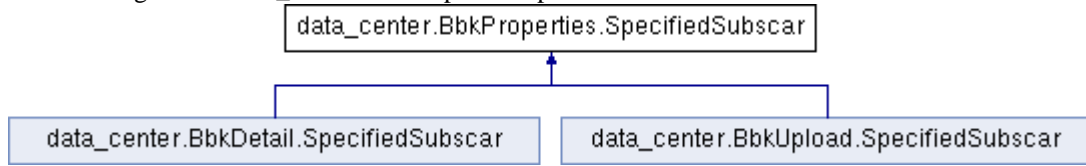
---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkUpload.java

## data\_center.BbkProperties.SpecifiedSubscar Class Reference

Inheritance diagram for data\_center.BbkProperties.SpecifiedSubscar:



### Public Member Functions

[`SpecifiedSubscar\(\)`](#)

[`SpecifiedSubscar\(ResultSet resultSet\)`](#) throws `SQLException`

### Public Attributes

String [`ID`](#)

String [`standard`](#)

String [`type`](#)

String [`name`](#)

String [`nickname`](#)

String [`comments`](#)

String [`sequence`](#)

---

### Detailed Description

Definition at line 110 of file `BbkProperties.java`.

---

### Constructor & Destructor Documentation

#### `data_center.BbkProperties.SpecifiedSubscar.SpecifiedSubscar()`

Definition at line 120 of file `BbkProperties.java`.

#### `data_center.BbkProperties.SpecifiedSubscar.SpecifiedSubscar(ResultSet resultSet)` throws `SQLException`

Definition at line 122 of file `BbkProperties.java`.

---

## Member Data Documentation

### **String data\_center.BbkProperties.SpecifiedSubscar.comments**

Definition at line 117 of file BbkProperties.java.

### **String data\_center.BbkProperties.SpecifiedSubscar.ID**

Definition at line 112 of file BbkProperties.java.

### **String data\_center.BbkProperties.SpecifiedSubscar.name**

Definition at line 115 of file BbkProperties.java.

### **String data\_center.BbkProperties.SpecifiedSubscar.nickname**

Definition at line 116 of file BbkProperties.java.

### **String data\_center.BbkProperties.SpecifiedSubscar.sequence**

Definition at line 118 of file BbkProperties.java.

### **String data\_center.BbkProperties.SpecifiedSubscar.standard**

Definition at line 113 of file BbkProperties.java.



**String data\_center.BbkProperties.SpecifiedSubscar.type**

Definition at line 114 of file BbkProperties.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkProperties.java

## data\_center.DBConsts.Header.SpecScar Class Reference

### Static Public Attributes

```
static final String ID = "scar_id"
static final String STANDARD = "scar_standard"
static final String TYPE = "scar_type"
static final String NAME = "scar_name"
static final String NICK\_NAME = "scar_nickname"
static final String COMMENTS = "scar_comments"
static final String SEQUENCE = "scar_sequence"
```

---

### Detailed Description

Definition at line 132 of file DBConsts.java.

---

### Member Data Documentation

```
final String data_center.DBConsts.Header.SpecScar.COMMENTS =  
"scar_comments" [static]
```

Definition at line 139 of file DBConsts.java.

```
final String data_center.DBConsts.Header.SpecScar.ID = "scar_id" [static]
```

Definition at line 134 of file DBConsts.java.

```
final String data_center.DBConsts.Header.SpecScar.NAME = "scar_name" [static]
```

Definition at line 137 of file DBConsts.java.

```
final String data_center.DBConsts.Header.SpecScar.NICK_NAME =  
"scar_nickname" [static]
```

Definition at line 138 of file DBConsts.java.

```
final String data_center.DBConsts.Header.SpecScar.SEQUENCE =  
"scar_sequence" [static]
```

Definition at line 140 of file DBConsts.java.

```
final String data_center.DBConsts.Header.SpecScar.STANDARD =  
"scar_standard" [static]
```

Definition at line 135 of file DBConsts.java.

```
final String data_center.DBConsts.Header.SpecScar.TYPE = "scar_type" [static]
```

Definition at line 136 of file DBConsts.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/DBConsts.java

## data\_center.DBConsts.Header.SpecSub Class Reference

### Static Public Attributes

```
static final String ID = "subpart_id"  
static final String NAME = "subpart_name"  
static final String SHORT\_DESC = "subpart_short_desc"  
static final String TYPE = "subpart_type"  
static final String NICKNAME = "subpart_nickname"
```

---

### Detailed Description

Definition at line 143 of file DBConsts.java.

---

### Member Data Documentation

**final String data\_center.DBConsts.Header.SpecSub.ID = "subpart\_id" [static]**

Definition at line 145 of file DBConsts.java.

**final String data\_center.DBConsts.Header.SpecSub.NAME = "subpart\_name" [static]**

Definition at line 146 of file DBConsts.java.

**final String data\_center.DBConsts.Header.SpecSub.NICKNAME =  
"subpart\_nickname" [static]**

Definition at line 149 of file DBConsts.java.

**final String data\_center.DBConsts.Header.SpecSub.SHORT\_DESC =  
"subpart\_short\_desc" [static]**

Definition at line 147 of file DBConsts.java.

```
final String data_center.DBConsts.Header.SpecSub.TYPE = "subpart_type" [static]
```

Definition at line 148 of file DBConsts.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹¸¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/DBConsts.java

## data\_center.DBConsts.Table Class Reference

### Static Public Attributes

```
static final String MAIN = "main"
static final String CATEGORIES = "categories"
static final String DEEP\_SUBPARTS = "deep_subparts"
static final String FEATURES = "features"
static final String PARAMETERS = "parameters"
static final String SPECIFIED\_SUBPARTS = "specified_subparts"
static final String SPECIFIED\_SUBSCARS = "specified_subscars"
static final String TWINS = "twins"
static final String MAIN\_UPLOAD = "main_upload"
static final String CATEGORIES\_UPLOAD = "categories_upload"
static final String DEEP\_SUBPARTS\_UPLOAD = "deep_subparts_upload"
static final String FEATURES\_UPLOAD = "features_upload"
static final String PARAMETERS\_UPLOAD = "parameters_upload"
static final String SPECIFIED\_SUBPARTS\_UPLOAD = "specified_subparts_upload"
static final String SPECIFIED\_SUBSCARS\_UPLOAD = "specified_subscars_upload"
static final String TWINS\_UPLOAD = "twins_upload"
```

---

### Detailed Description

The table names in the database. Those with "\_upload" is used to contain new biobricks uploaded by EasyBbk.

Definition at line 9 of file DBConsts.java.

---

### Member Data Documentation

```
final String data_center.DBConsts.Table.CATEGORIES = "categories" [static]
```

Definition at line 12 of file DBConsts.java.

```
final String data_center.DBConsts.Table.CATEGORIES_UPLOAD =  
"categories_upload" [static]
```

Definition at line 21 of file DBConsts.java.

```
final String data_center.DBConsts.Table.DEEP_SUBPARTS = "deep_subparts" [static]
```

Definition at line 13 of file DBConsts.java.

```
final String data_center.DBConsts.Table.DEEP_SUBPARTS_UPLOAD =  
"deep_subparts_upload" [static]
```

Definition at line 22 of file DBConsts.java.

```
final String data_center.DBConsts.Table.FEATURES = "features" [static]
```

Definition at line 14 of file DBConsts.java.

```
final String data_center.DBConsts.Table.FEATURES_UPLOAD =  
"features_upload" [static]
```

Definition at line 23 of file DBConsts.java.

```
final String data_center.DBConsts.Table.MAIN = "main" [static]
```

Definition at line 11 of file DBConsts.java.

```
final String data_center.DBConsts.Table.MAIN_UPLOAD = "main_upload" [static]
```

Definition at line 20 of file DBConsts.java.

```
final String data_center.DBConsts.Table.PARAMETERS = "parameters" [static]
```

Definition at line 15 of file DBConsts.java.

```
final String data_center.DBConsts.Table.PARAMETERS_UPLOAD =  
"parameters_upload" [static]
```

Definition at line 24 of file DBConsts.java.

```
final String data_center.DBConsts.Table.SPECIFIED_SUBPARTS =  
"specified_subparts" [static]
```

Definition at line 16 of file DBConsts.java.

```
final String data_center.DBConsts.Table.SPECIFIED_SUBPARTS_UPLOAD =  
"specified_subparts_upload" [static]
```

Definition at line 25 of file DBConsts.java.

```
final String data_center.DBConsts.Table.SPECIFIED_SUBSCARS =  
"specified_subscars" [static]
```

Definition at line 17 of file DBConsts.java.

```
final String data_center.DBConsts.Table.SPECIFIED_SUBSCARS_UPLOAD =  
"specified_subscars_upload" [static]
```



Definition at line 26 of file DBConsts.java.

```
final String data_center.DBConsts.Table.TWINS = "twins" [static]
```

Definition at line 18 of file DBConsts.java.

```
final String data_center.DBConsts.Table.TWINS_UPLOAD = "twins_upload" [static]
```

Definition at line 27 of file DBConsts.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/DBConsts.java

## data\_center.TimeTagGenerator Class Reference

### Static Public Member Functions

static String [generateYearMonthDateStr](#) ()

static String [generateHourMinStr](#) ()

static String [generateTimeTag](#) ()

---

### Detailed Description

Used to generate time tag for [BlastingSearcher](#)(used to distinguish a blast request from another) and [BbkUpload](#)(used to record the enter date of the part into the database by SJTU-software)

Definition at line 8 of file TimeTagGenerator.java.

---

### Member Function Documentation

**static String data\_center.TimeTagGenerator.generateHourMinStr () [static]**

#### Returns:

Hour:Min

Definition at line 21 of file TimeTagGenerator.java.

**static String data\_center.TimeTagGenerator.generateTimeTag () [static]**

#### Returns:

Time tag accurate to ms, no separators

Definition at line 30 of file TimeTagGenerator.java.

**static String data\_center.TimeTagGenerator.generateYearMonthDateStr () [static]**

#### Returns:

Year/Month/Date

Definition at line 11 of file TimeTagGenerator.java.

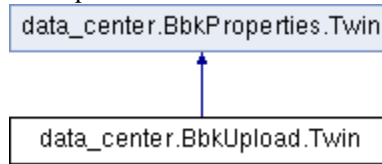
---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/TimeTagGenerator.java

## data\_center.BbkUpload.Twin Class Reference

Inheritance diagram for data\_center.BbkUpload.Twin:



### Public Member Functions

[Twin](#) ()

[Twin](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [twin](#)

---

### Detailed Description

Definition at line 241 of file BbkUpload.java.

---

### Constructor & Destructor Documentation

#### data\_center.BbkUpload.Twin.Twin ()

Used when new a twin to fill in BbkDatabaseConnector.findTwinsBySequence. Avoiding conflict from the filling when modify uploaded bbk

Definition at line 245 of file BbkUpload.java.

#### data\_center.BbkUpload.Twin.Twin (ResultSet *resultSet*) throws SQLException

Used to fill data from database when modify uploaded bbk

Definition at line 248 of file BbkUpload.java.

---

### Member Data Documentation

String data\_center.BbkProperties.Twin.twin [inherited]

Definition at line 136 of file BbkProperties.java.

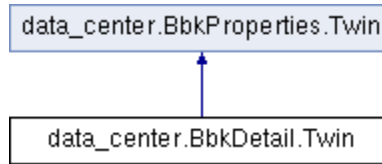
---

**The documentation for this class was generated from the following file:**

D:/\_About ǎ-ǎ<sup>1</sup>/ç<sup>±</sup>ǎ • %ǎǎ\$/SJTU-Software\_2014/src/data\_center/BbkUpload.java

## data\_center.BbkDetail.Twin Class Reference

Inheritance diagram for data\_center.BbkDetail.Twin:



### Public Member Functions

[Twin](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [twin](#)

---

### Detailed Description

Definition at line 82 of file BbkDetail.java.

---

### Constructor & Destructor Documentation

**data\_center.BbkDetail.Twin.Twin (ResultSet *resultSet*) throws SQLException**

Definition at line 84 of file BbkDetail.java.

---

### Member Data Documentation

**String data\_center.BbkProperties.Twin.twin [inherited]**

Definition at line 136 of file BbkProperties.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç±â • %å§†/SJTU-Software\_2014/src/data\_center/BbkDetail.java

## data\_center.DBConsts.Header.Twin Class Reference

### Static Public Attributes

static final String [TWIN](#) = "twin"

---

### Detailed Description

Definition at line 152 of file DBConsts.java.

---

### Member Data Documentation

**final String data\_center.DBConsts.Header.Twin.TWIN = "twin" [static]**

Definition at line 154 of file DBConsts.java.

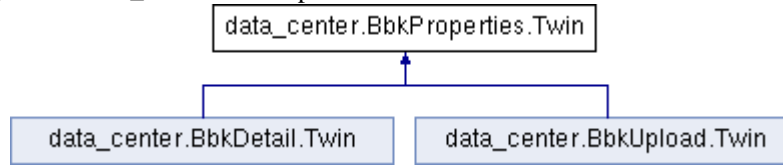
---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/DBConsts.java

## data\_center.BbkProperties.Twin Class Reference

Inheritance diagram for data\_center.BbkProperties.Twin:



### Public Member Functions

[Twin](#) ()

[Twin](#) (ResultSet resultSet) throws SQLException

### Public Attributes

String [twin](#)

---

### Detailed Description

Definition at line 134 of file BbkProperties.java.

---

### Constructor & Destructor Documentation

#### data\_center.BbkProperties.Twin.Twin ()

Definition at line 138 of file BbkProperties.java.

#### data\_center.BbkProperties.Twin.Twin (ResultSet *resultSet*) throws SQLException

Definition at line 140 of file BbkProperties.java.

---

### Member Data Documentation

#### String data\_center.BbkProperties.Twin.twin

Definition at line 136 of file BbkProperties.java.



---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/BbkProperties.java

## data\_center.UploadCenter Class Reference

### Public Member Functions

[UploadCenter](#) ()

boolean [isBbkNameNotOccupied](#) (String rawName)

String [uploadAndGetOddNum](#) ([BbkUpload](#) bbkUpload)

[BbkUpload](#) [getBbkUploadByNameAndOddNum](#) (String name, String oddNum)

boolean [isSequanceValid](#) (String sequenceToken)

[BbkDetail](#) [getSubpartForSequenceToken](#) (String bbkName)

[BbkUpload.SpecifiedSubscar](#) [getSubscarForSequenceToken](#) (String scarName)

---

### Detailed Description

Provide function used when uploading a biobrick into database by SJTU-software. Also include validation check of the part\_name, sequence the subparts and the subscars to be filled into [BbkUpload](#) instance to be uploaded.

Definition at line 6 of file UploadCenter.java.

---

### Constructor & Destructor Documentation

#### data\_center.UploadCenter.UploadCenter ()

Definition at line 8 of file UploadCenter.java.

---

### Member Function Documentation

[BbkUpload](#) [data\\_center.UploadCenter.getBbkUploadByNameAndOddNum](#) (String *name*, String *oddNum*)

Use the part\_name and the oddNum to find a previously uploaded biobrick. The oddNum is stored as the part\_id of an bbk

Definition at line 27 of file UploadCenter.java.

[BbkDetail](#) [data\\_center.UploadCenter.getSubpartForSequenceToken](#) (String *bbkName*)

Used for subpart validation check.

**Returns:**

null if no such part\_name is found, thus it can't be a subpart.

Definition at line 46 of file UploadCenter.java.

**BbkUpload.SpecifiedSubscar data\_center.UploadCenter.getSubscarForSequenceToken (String scarName)**

Used for subscar validation check.

**Returns:**

null if no such scar name is found, thus it can't be a subscar.

Definition at line 53 of file UploadCenter.java.

**boolean data\_center.UploadCenter.isBbkNameNotOccupied (String rawName)**

rawName is also known as the shortName

**Returns:**

true for the name is not occupied, so that it can be used as the part\_name to be uploaded.

Definition at line 13 of file UploadCenter.java.

**boolean data\_center.UploadCenter.isSequenceValid (String sequenceToken)**

Check if the sequence string is only consist if base group, not other chars.

Definition at line 33 of file UploadCenter.java.

**String data\_center.UploadCenter.uploadAndGetOddNum ([BbkUpload](#) bbkUpload)**

Upload a new biobrick and get the odd number used to modify it later. The oddNum is stored in the part\_id of an biobrick.

Definition at line 20 of file UploadCenter.java.

---

**The documentation for this class was generated from the following file:**

D:/\_About å-ä¹/ç^±å • %å§†/SJTU-Software\_2014/src/data\_center/UploadCenter.java

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